

سر الكهرباء الباردة
فانون التيرموديناميك وهرطفن الكهرباء وأثر

استثمار الكهرباء الساكنة لاستخلاص الطاقة من الفراغ

سرّ الكهرباء الباردة

قانون التيرمو ديناميك وهرطقة الكهرواثير

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استثمار الكهرباء الساكنة لاستخلاص الطاقة من الفراغ

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إعداد

علاء الحلبي

سرّ الكهرباء الباردة

إعداد: علاء الحلبي

سنة الطباعة: ٢٠١١.

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دار مؤسسة رسلان للطباعة والنشر والتوزيع

جميع الحقوق محفوظة

يطلب الكتاب على العنوان التالي:

دار مؤسسة رسلان

للطباعة والنشر والتوزيع

سوريا - دمشق - جرمانا

هاتف: ٥٦٢٧٠٦٠ ٠٩٦٣١١

فاكس: ٥٦٣٢٨٦٠ ٠٩٦٣١١

ص.ب: ٢٥٩ جرمانا

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shockwaves

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.Radiant Energy

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Testatika

Edwin Gray

Paul Baumann

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static electricity ()

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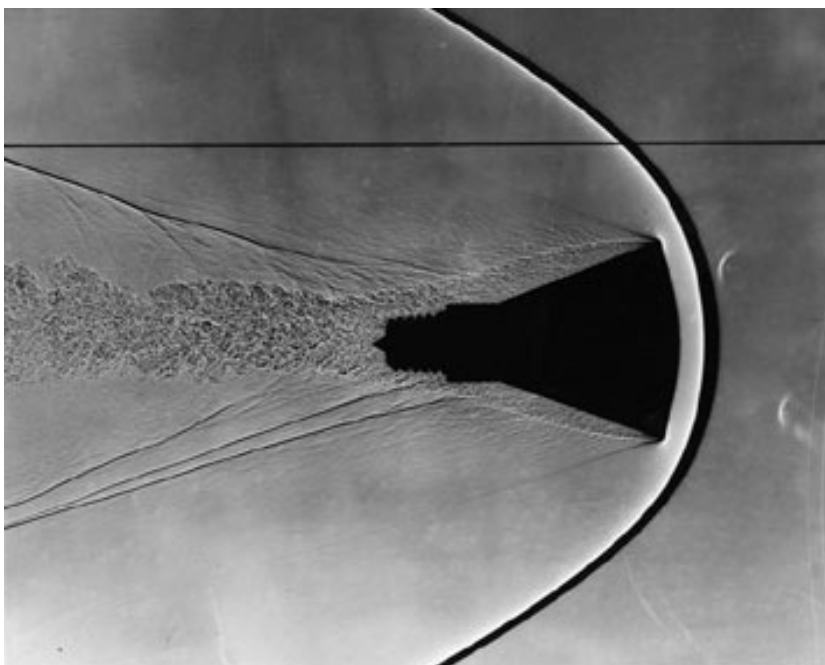
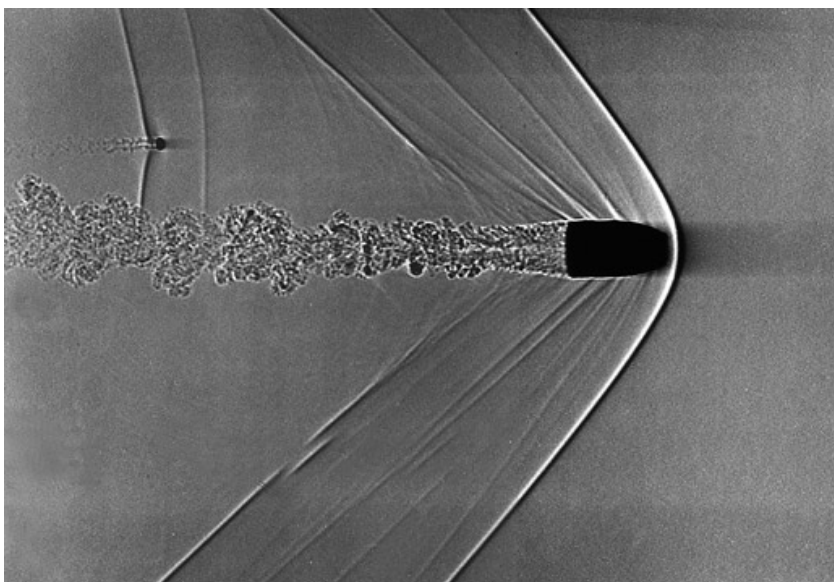
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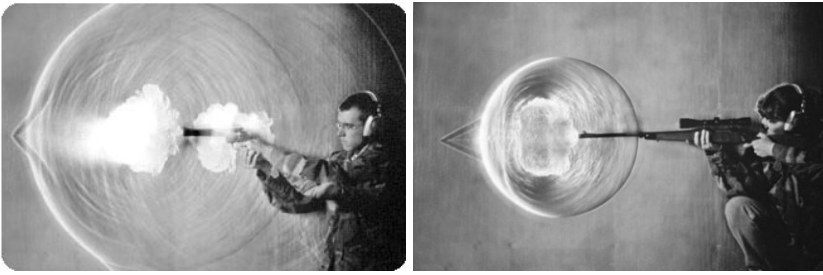
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Hermann von "

(١) استعمل أرسطو هذا المصطلح حيث يلفظ بالإنكليزية Aether (أثير) واستعمل العرب للتعبير عن مفهوم أرسطو كلمة (أثير) ونحن فضلنا استعمال الكلمة العربية.

Helmholtz

perpetual motion machine

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work loss "

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ETHERICITY

Etheric Energy Field

fluid

" Light Ether "	" Warmth Ether "	"
.Life Ether "	" Tone (or Chemical) ()	

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Light Ether " "

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ETHERICITY "

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Wilhelm Reich "

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Aether Theory



stimulation of the aether field

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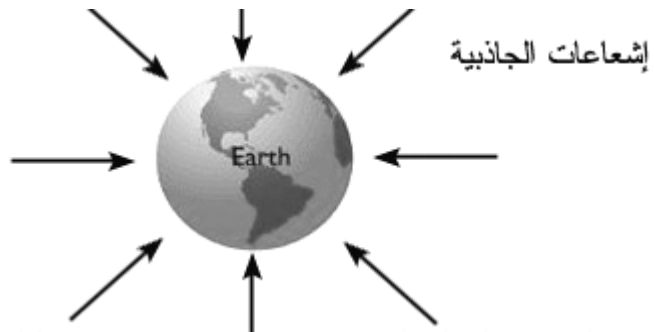
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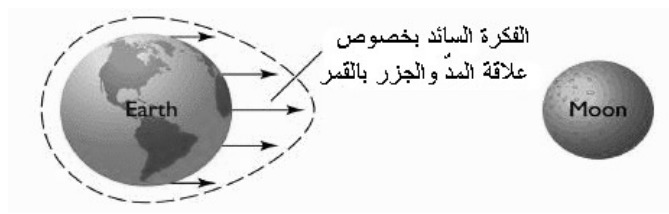
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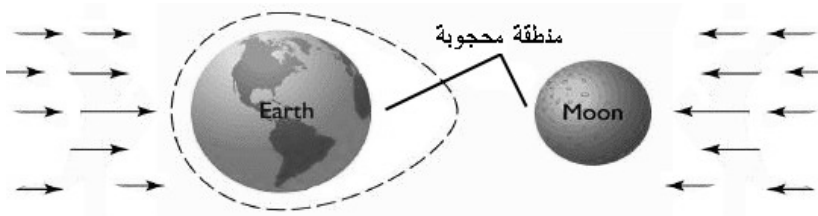
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Unified Field

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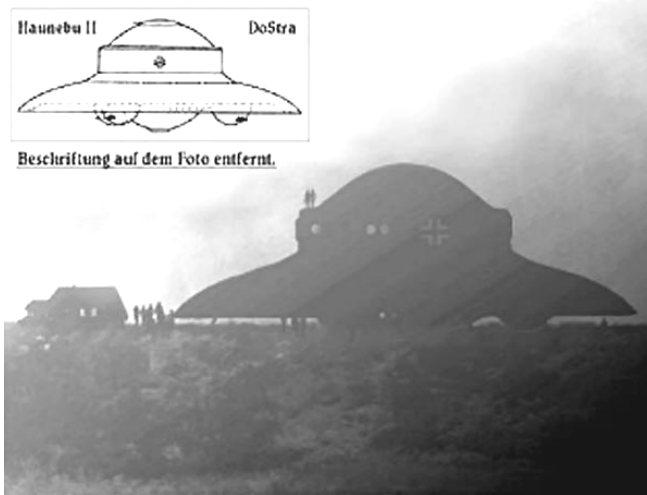
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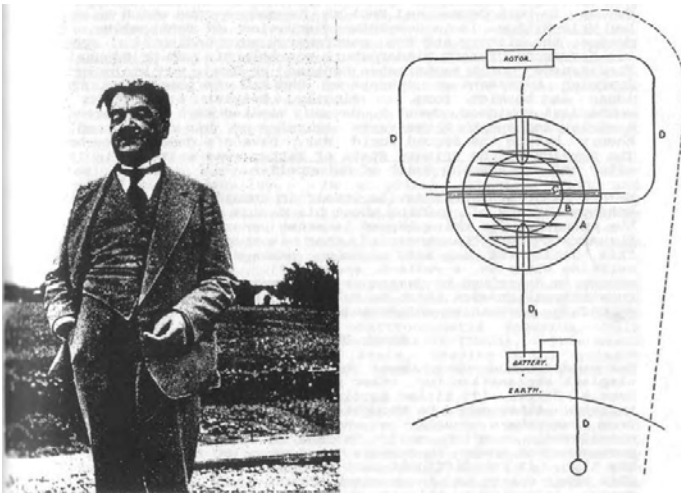
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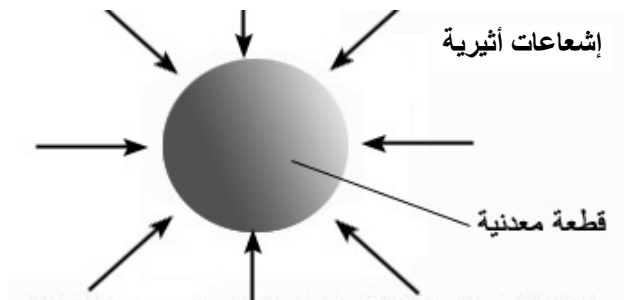
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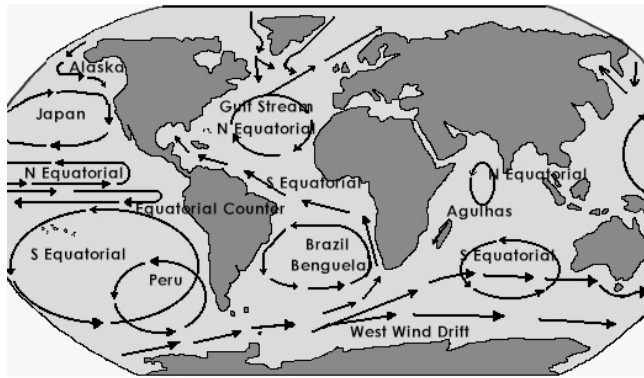
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Voltage

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Electro Motive Force

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Luigi Galvani

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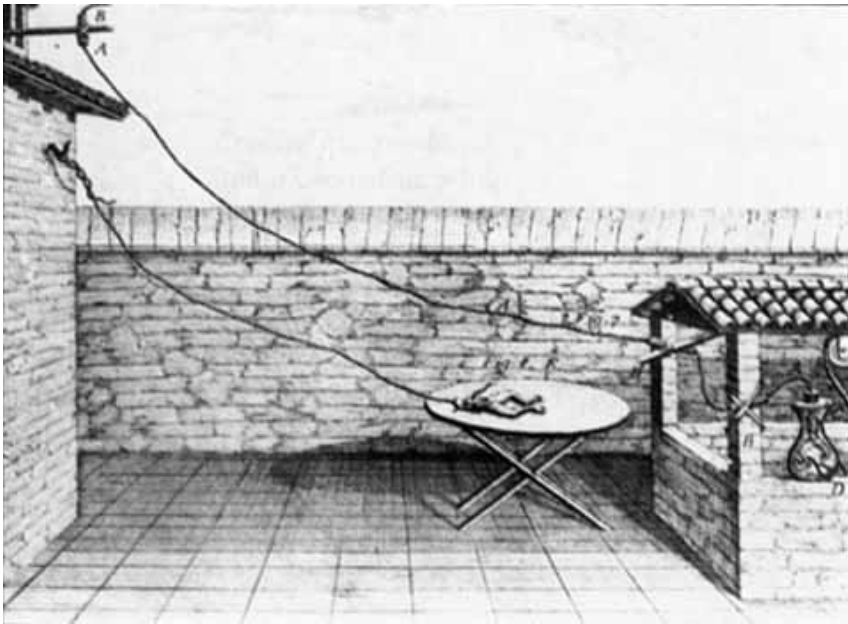
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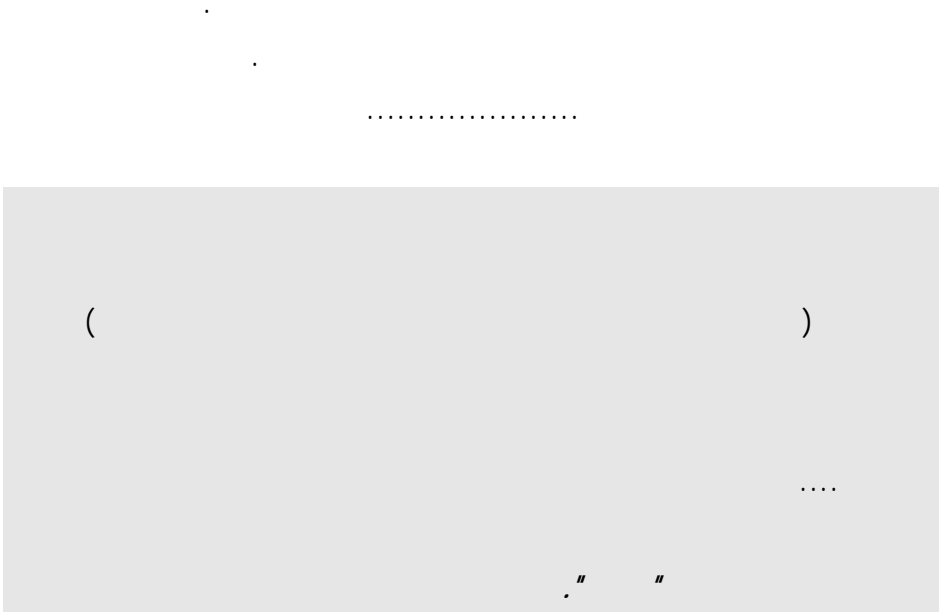
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flowing

space radiant stream

charge

dark light " "

lines of force

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dielectric

diaelectric ()

flux

.force lines

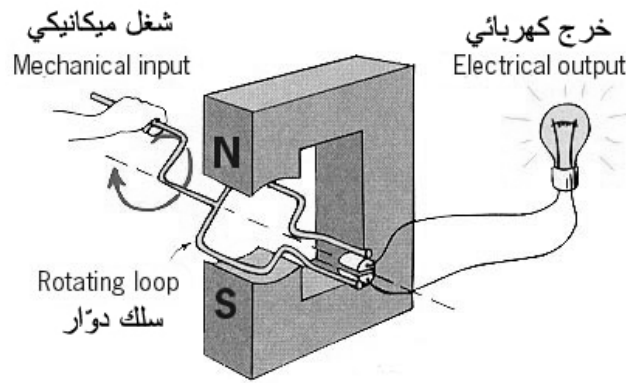
flowing charge

ultra-- "

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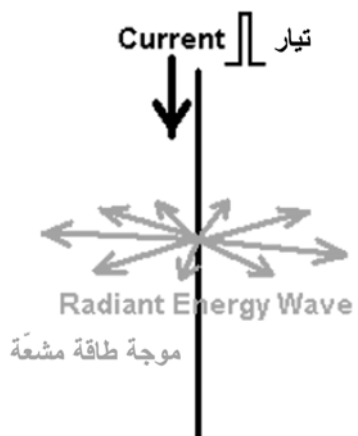


electro-radiant impulses

disruptive field impulse

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radiant electricity

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longitudinal dynamic flow-lines

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flowing charge substance

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Royal Society

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radiating electricity

space-flowing current

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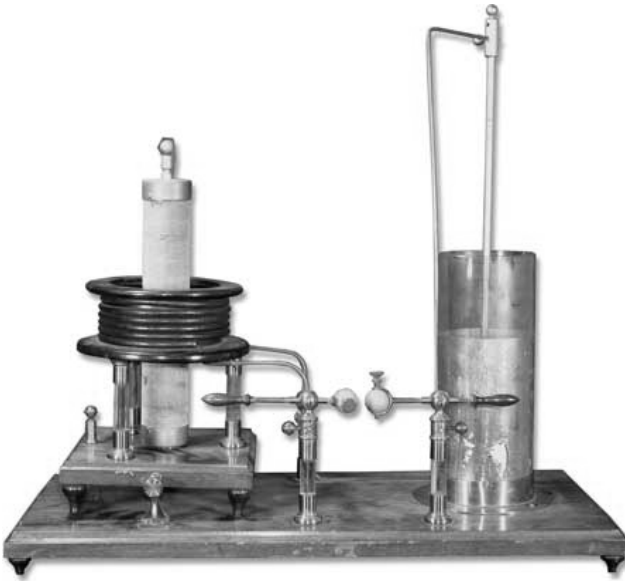
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ZERO current



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X-rays

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Radio signals

Telephone signals

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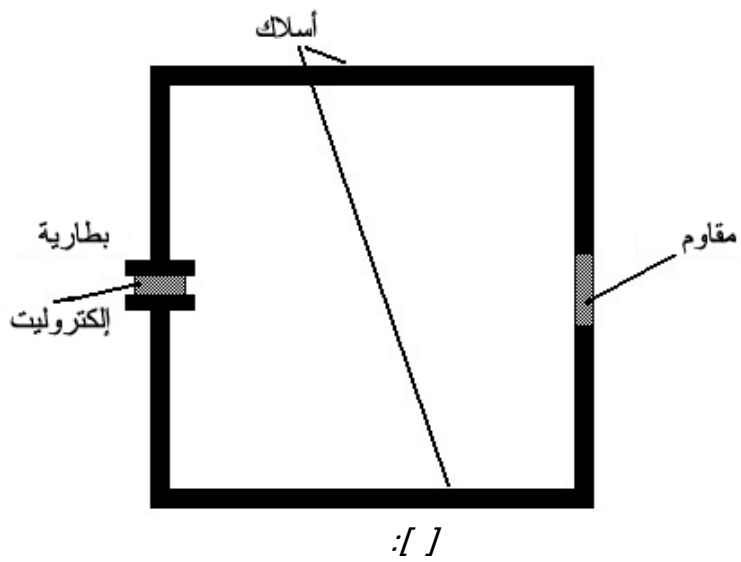
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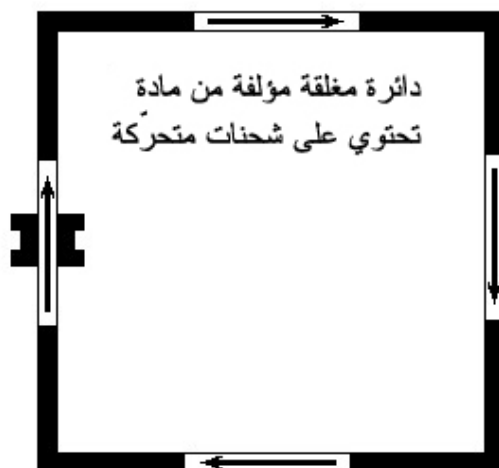
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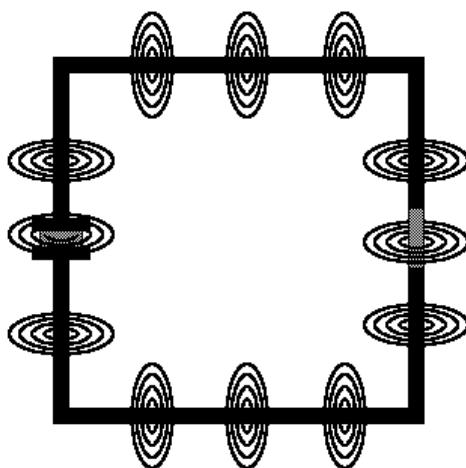
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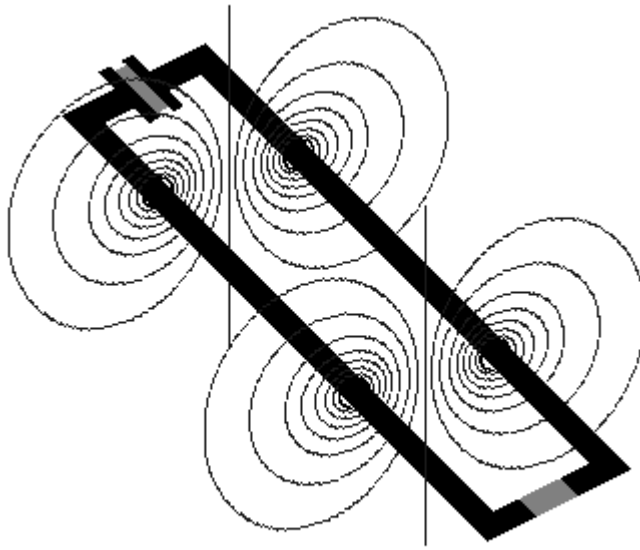
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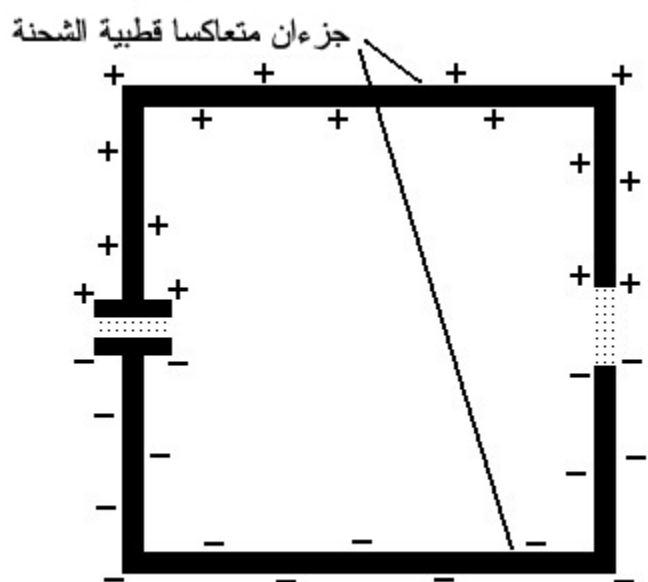
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B-field "

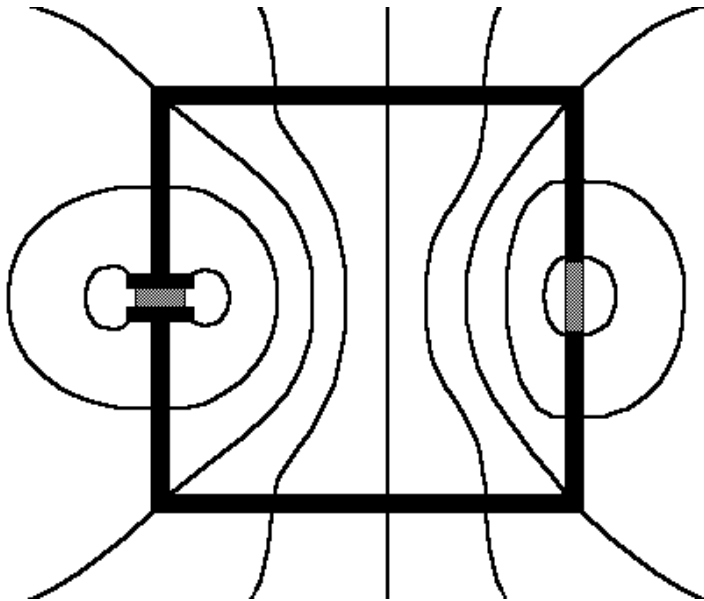


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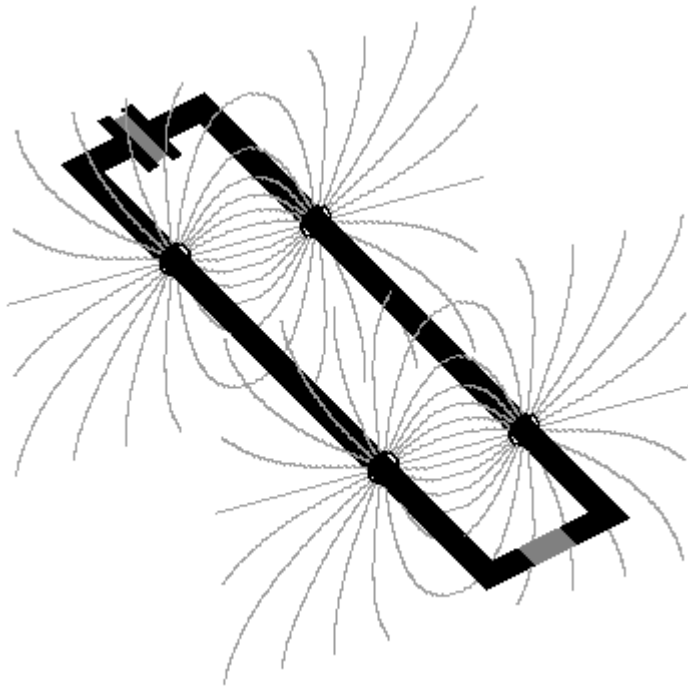
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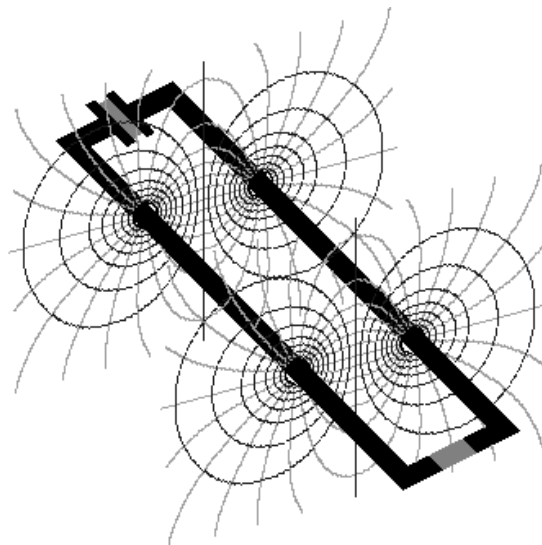
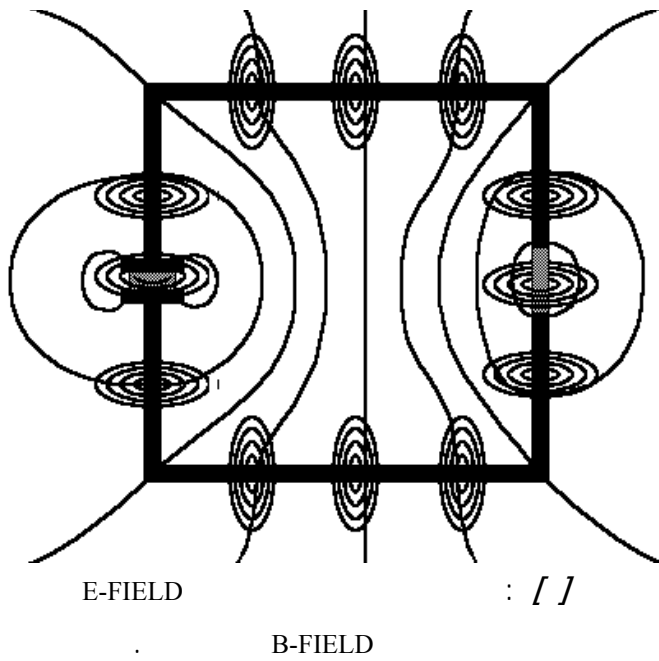
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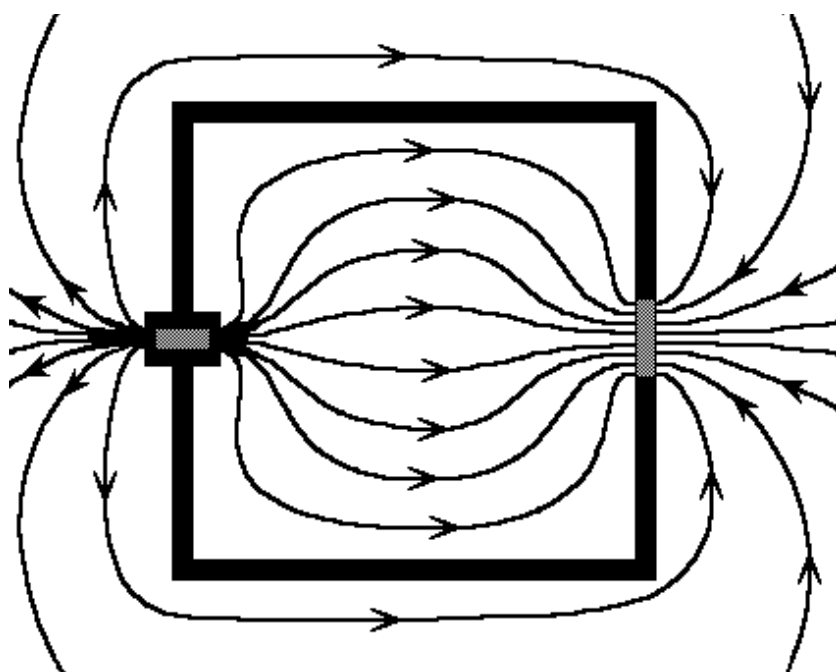
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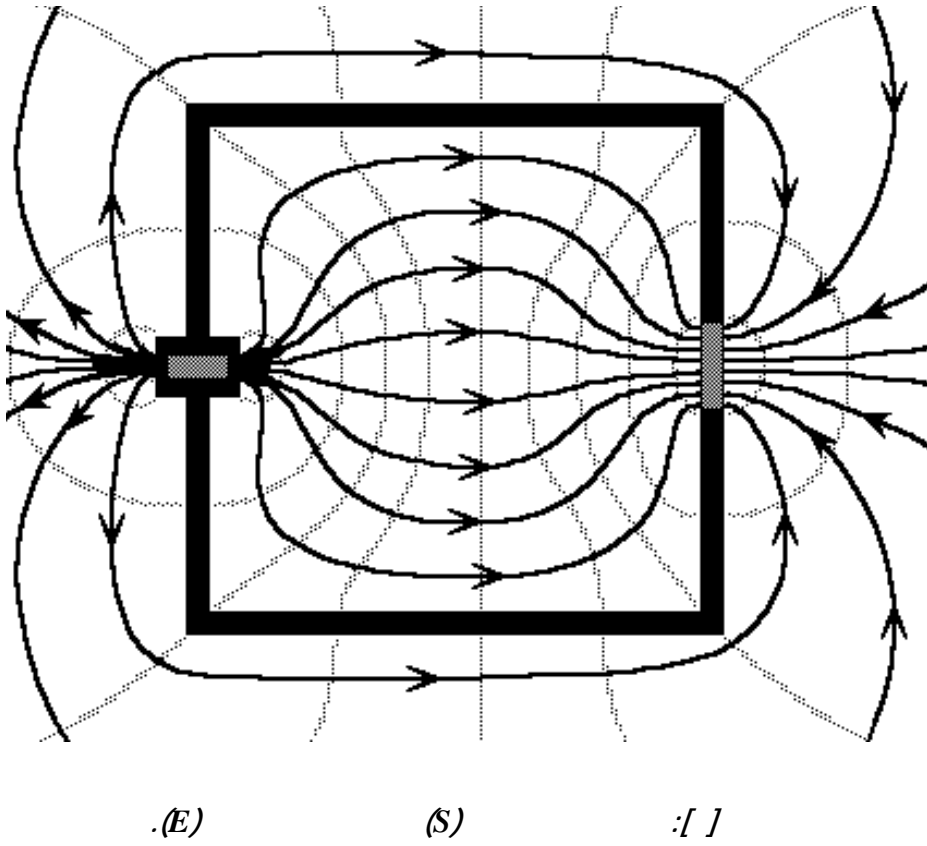
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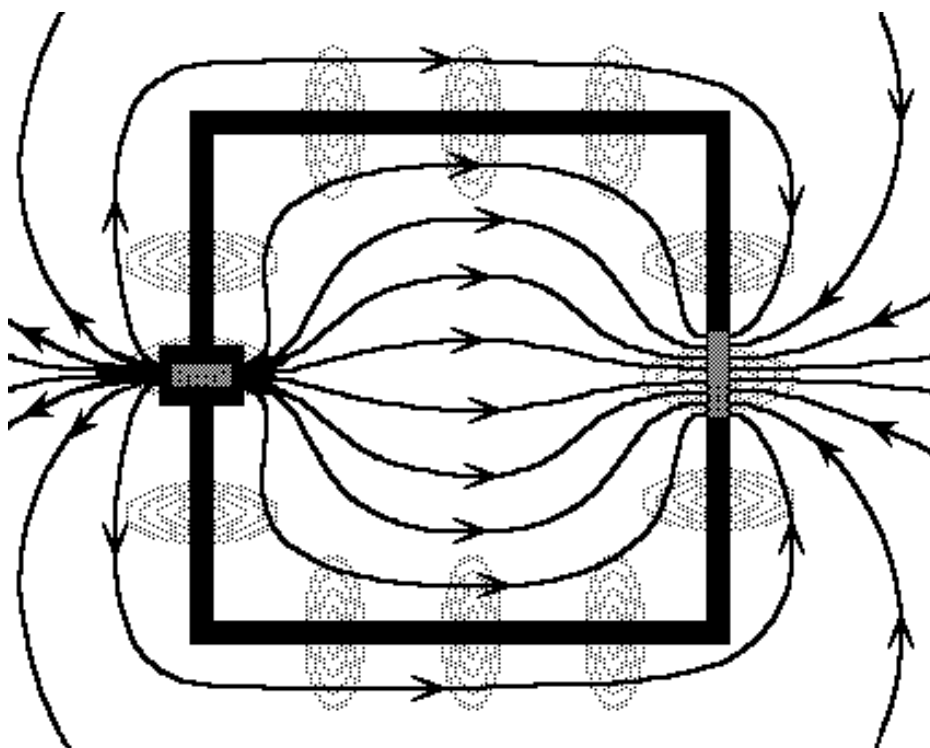
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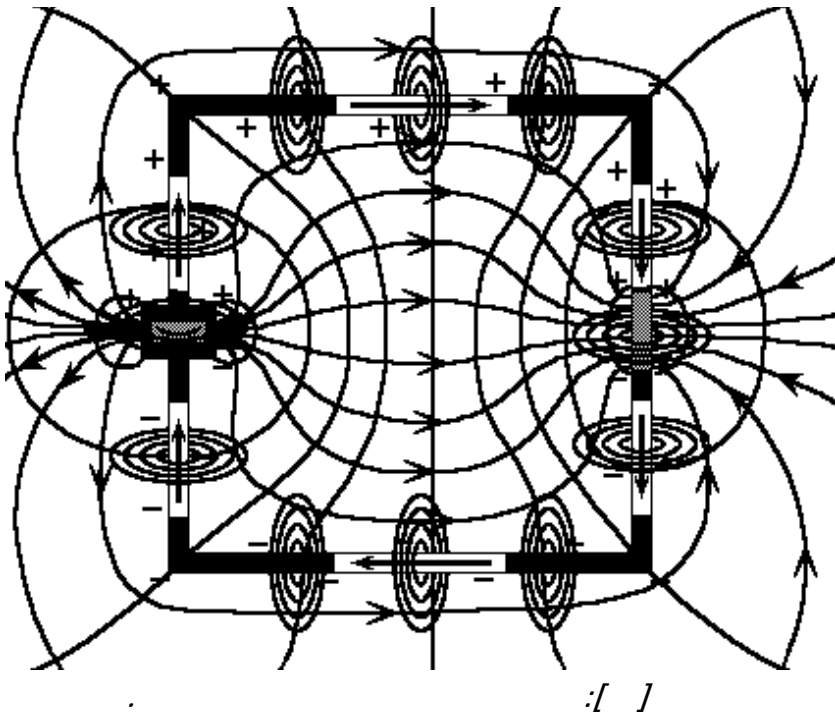




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Poynting-flow



:John Henry Poynting

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.Poynting vector. "

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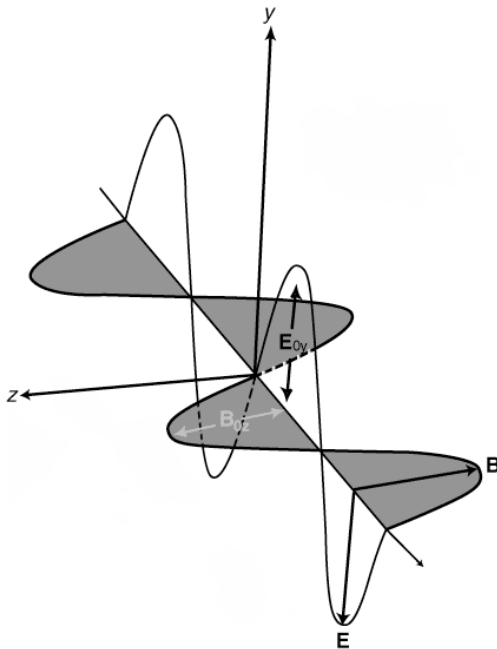
:Richard Feynman

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Poynting-flow

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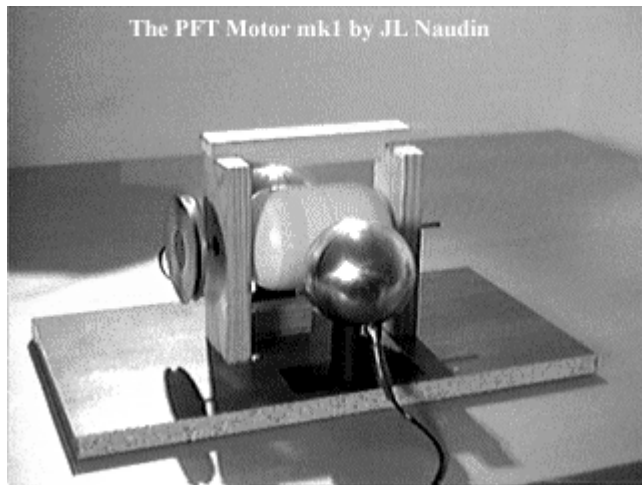
The PFT Motor

The Poynting Flow Thruster

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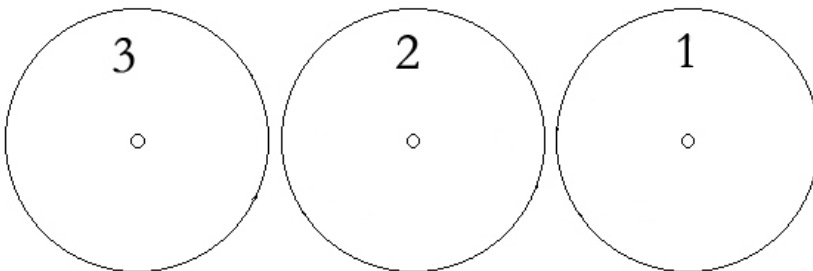
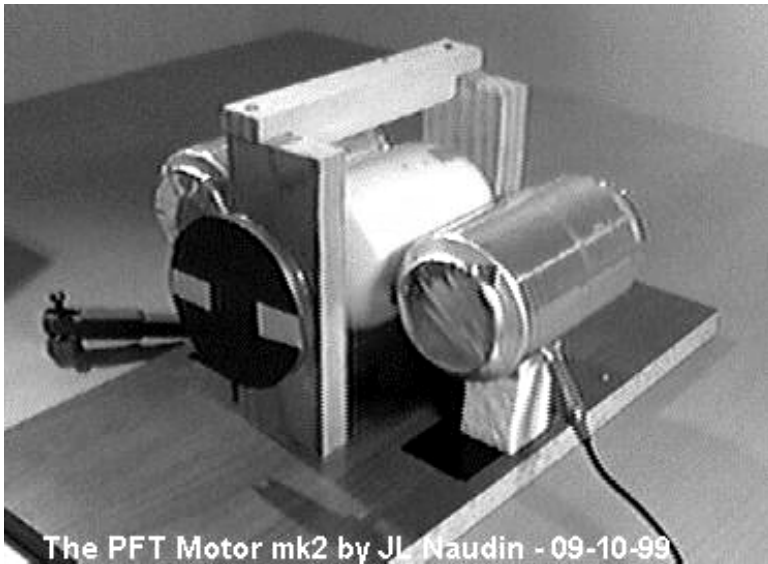
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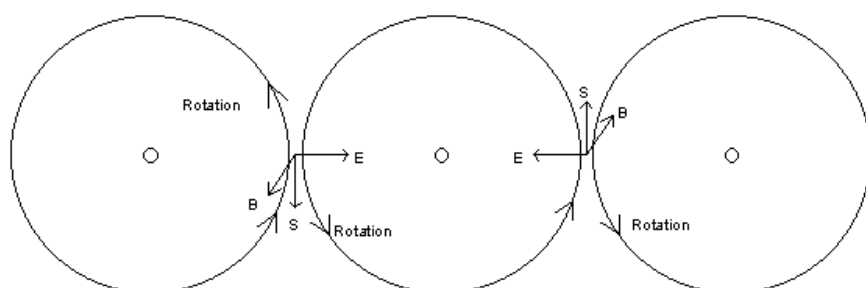
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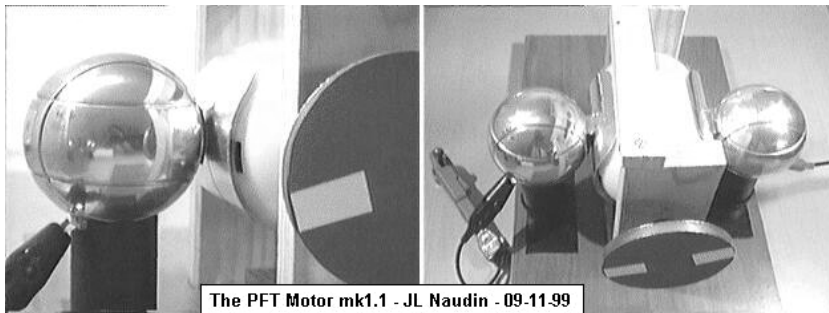
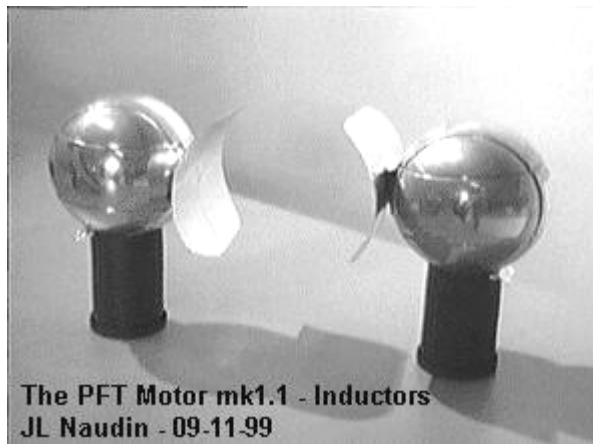


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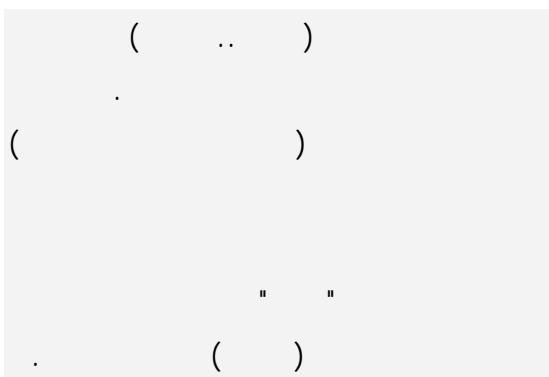
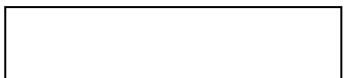
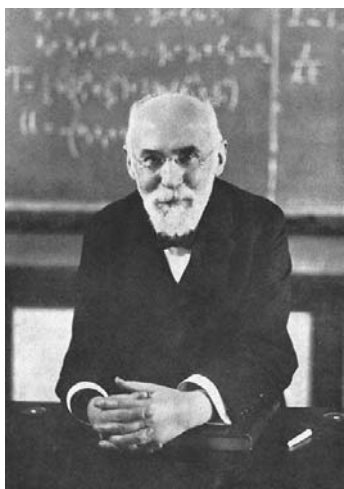
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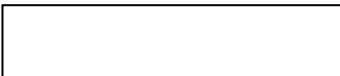
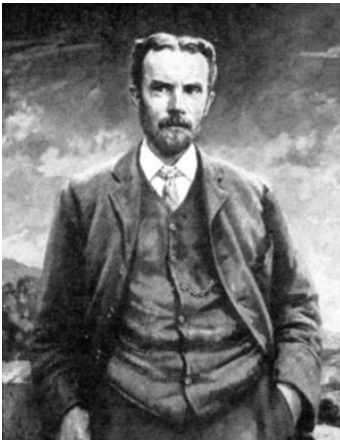
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Heaviside " "

Poynting " "

:Heaviside- Oliver



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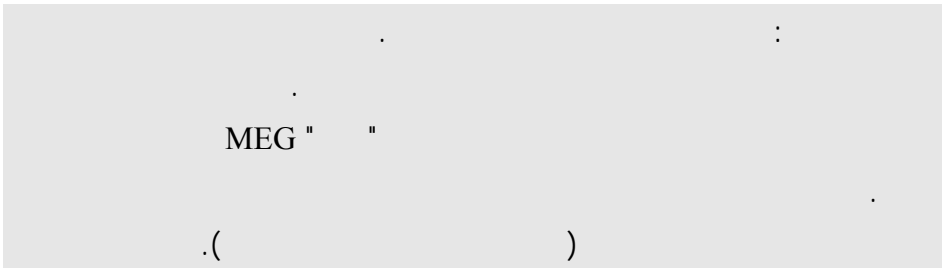
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.Taming the Fierce Energy of the Vacuum

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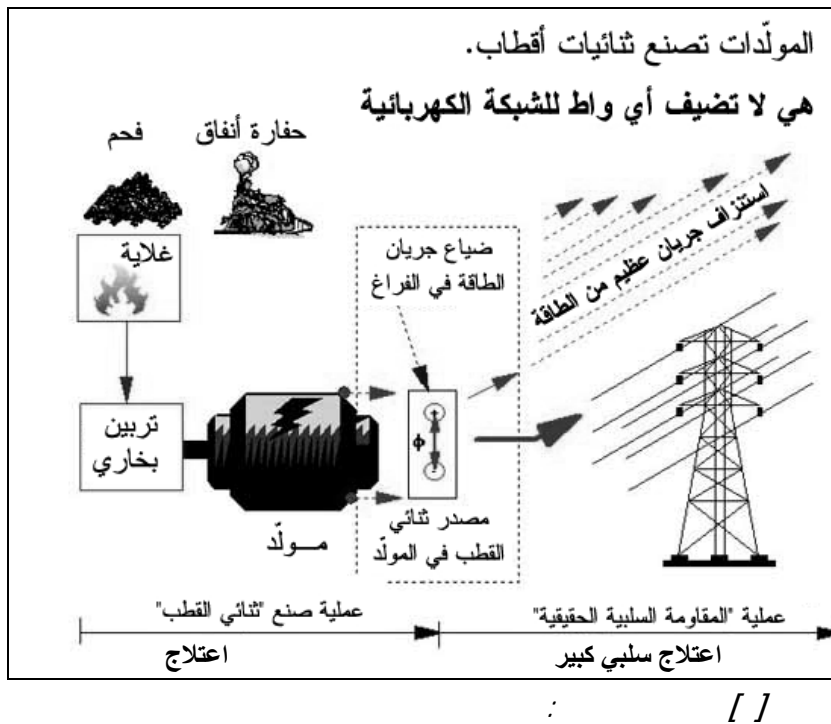
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(Drude electrons " ")

source dipole converter



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receiver/converter " / "

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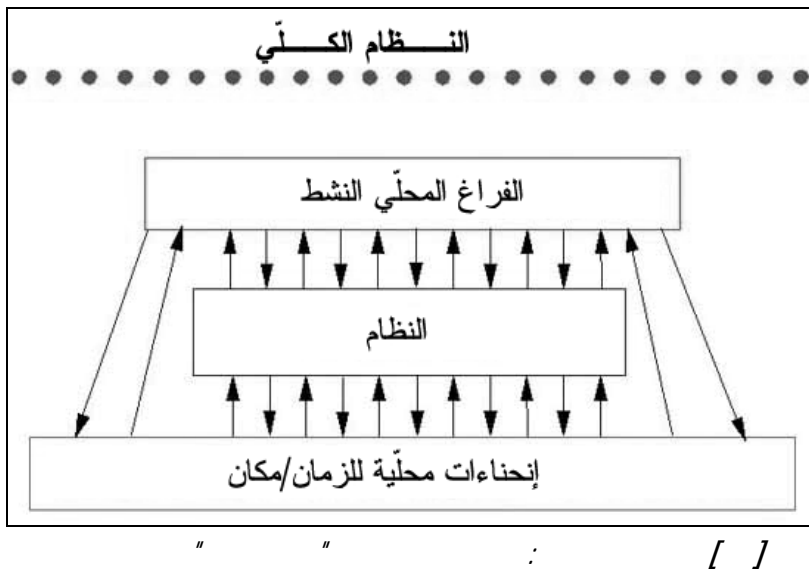
.dipole's broken symmetry in its vacuum interaction

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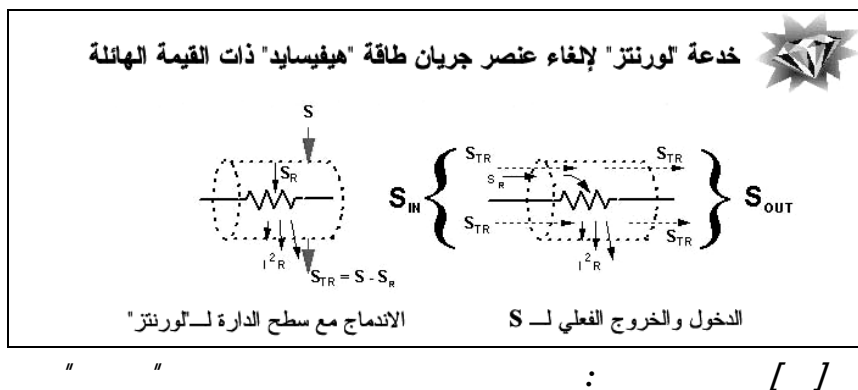
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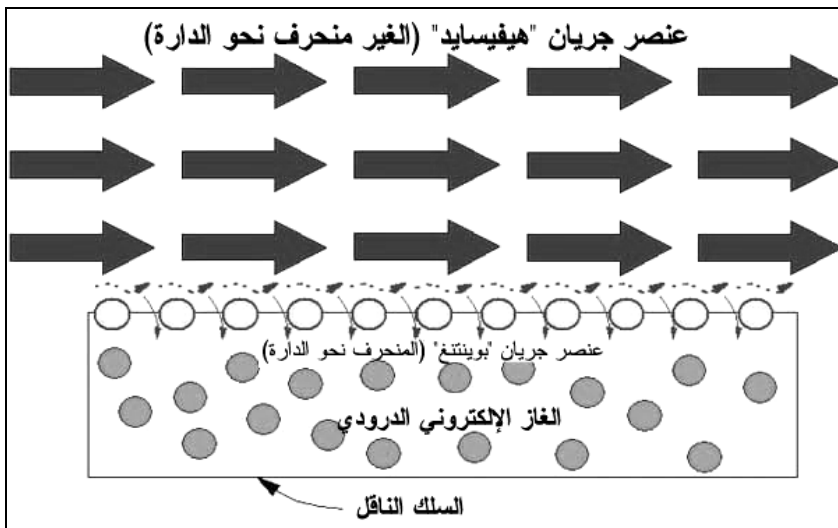


dipole :

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Drude electron gas



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broken symmetry

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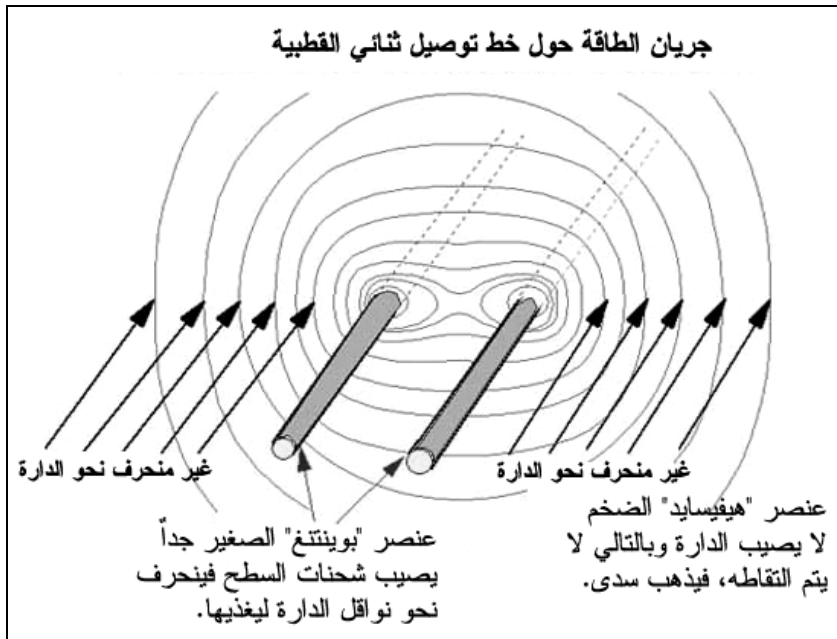
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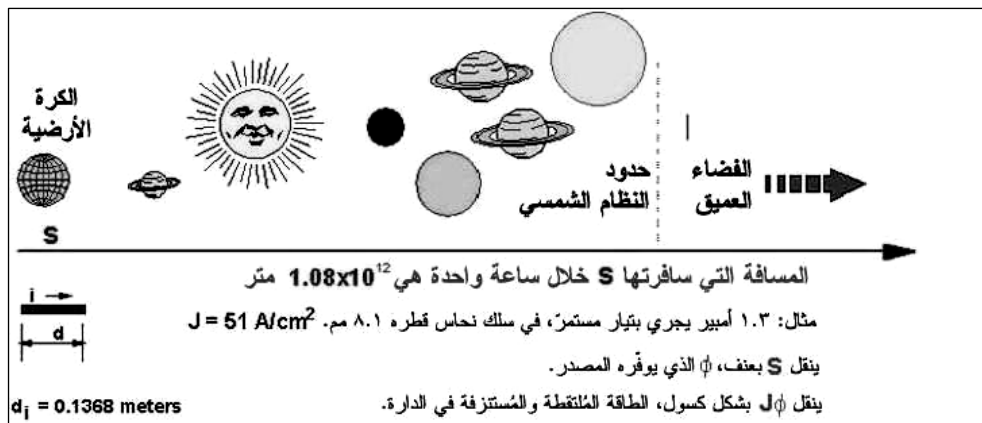
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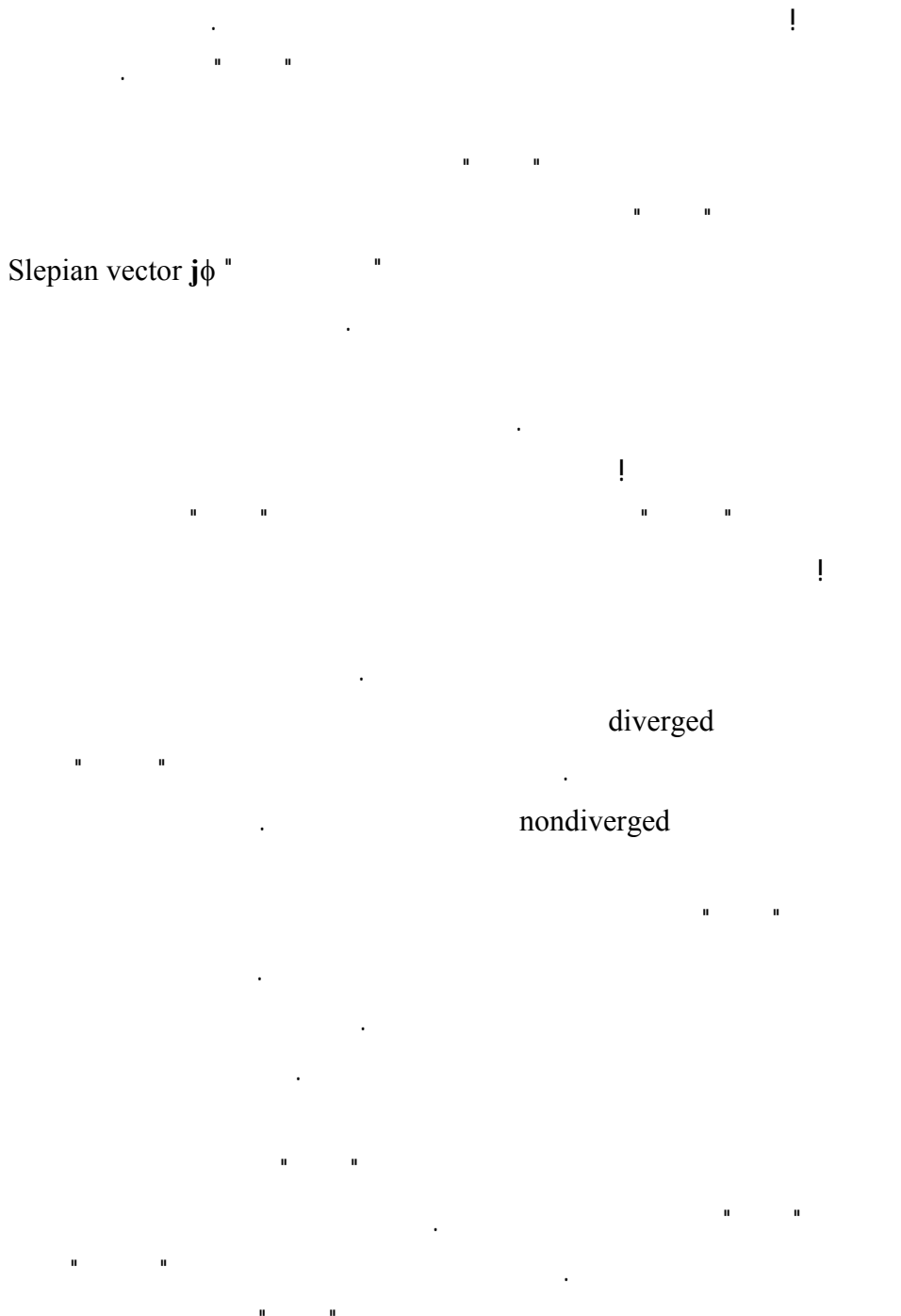
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:*Exploring the Physics of the Unknown Universe*

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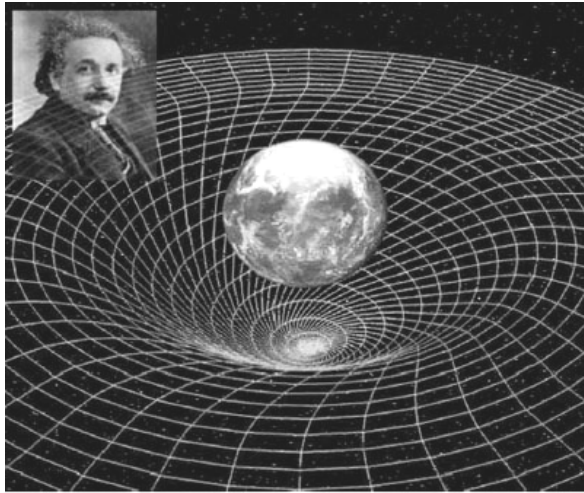
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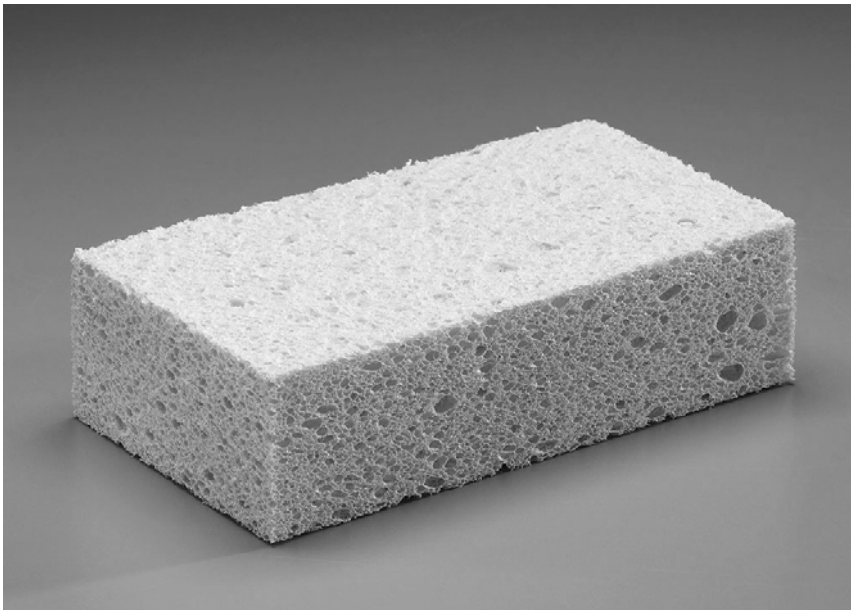
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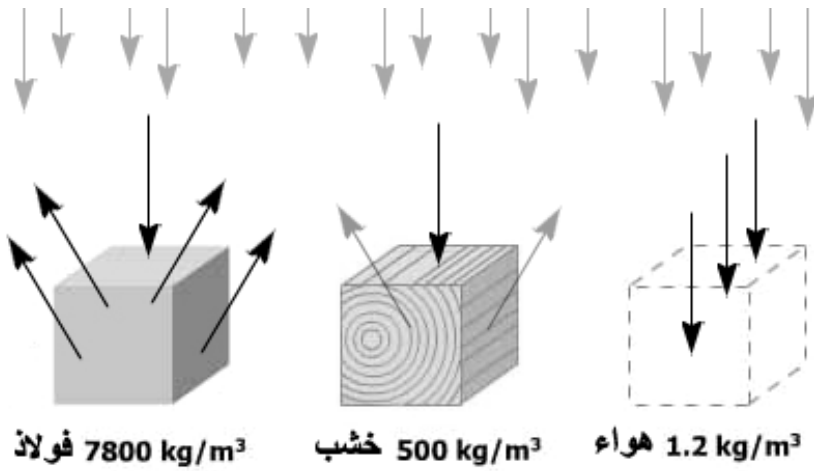
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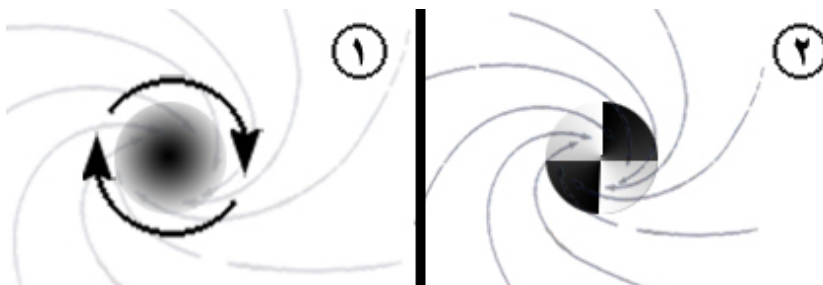
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AETHERIC QUANTUM MECHANICS

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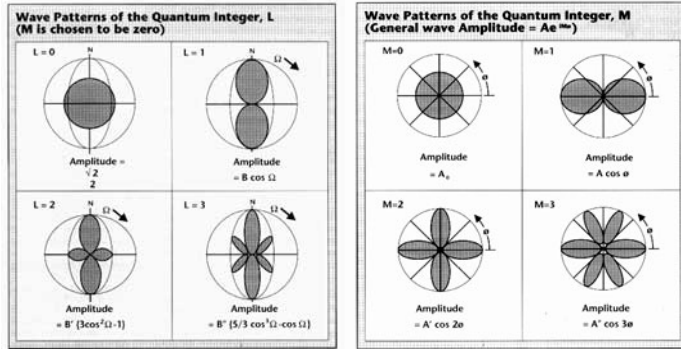


Figure 9-1D. Polar standing waves. These figures look towards the equator of the sphere and show waves traveling between the poles. The amplitude equations are shown as Associated Legendre functions which depend on the latitude $\cos \Omega$, and the quantum integers L and M. Each added integer of L adds another pair of standing wave lobes.

Figure 9-1C. Equatorial waves. These figures look down upon a pole of the sphere and show amplitudes of the standing waves rotating around the center of the equator which depend on the longitudinal angle ϕ . Each added integer adds another pair of standing wave lobes.

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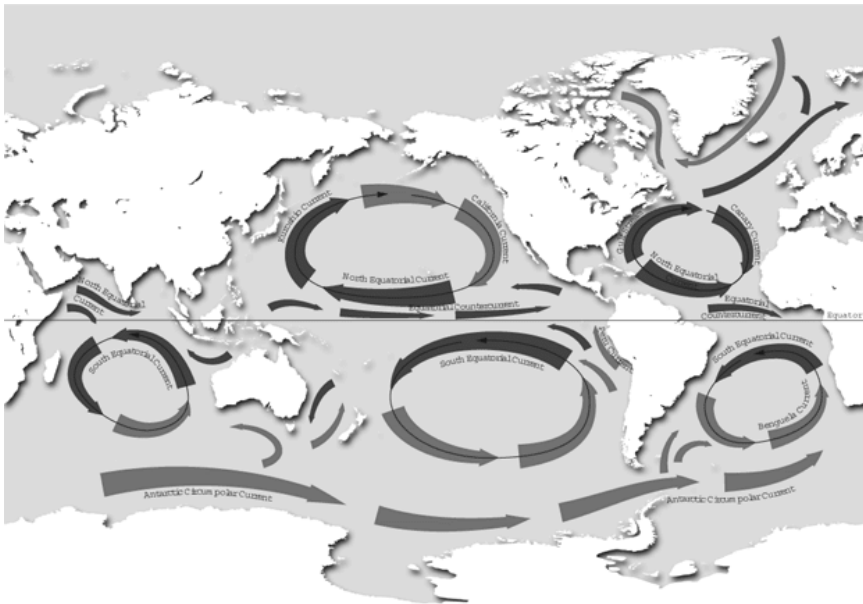
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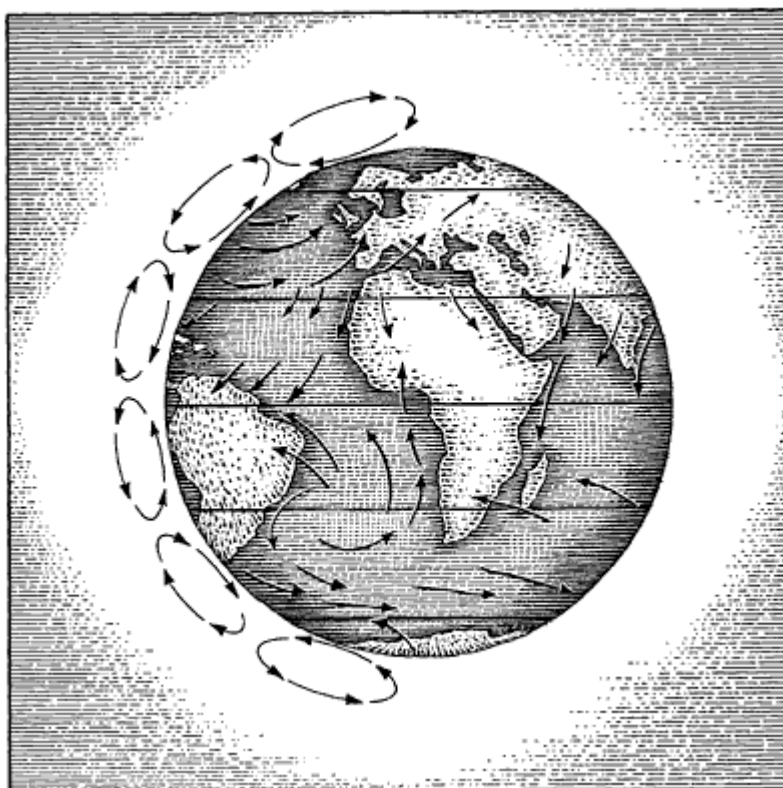
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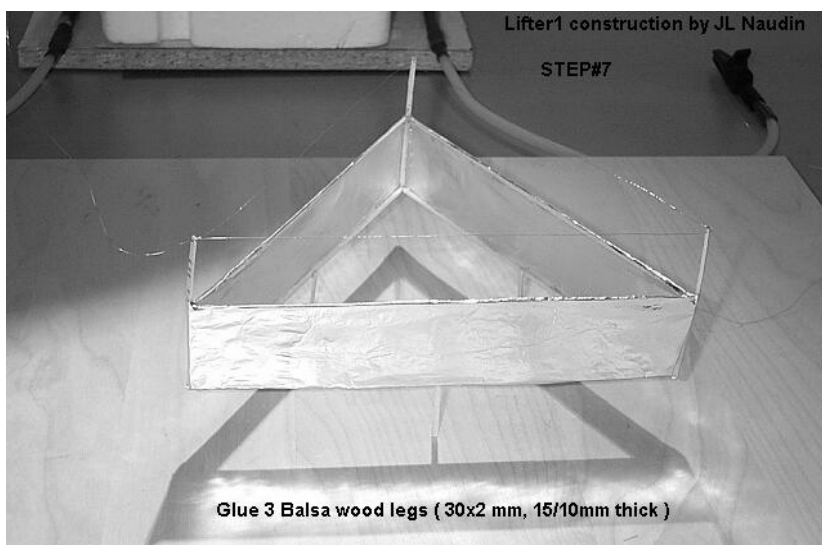
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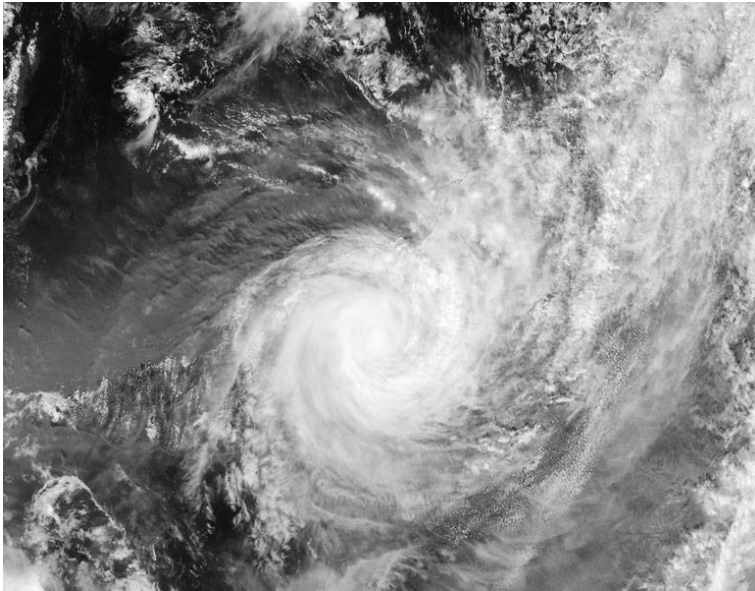
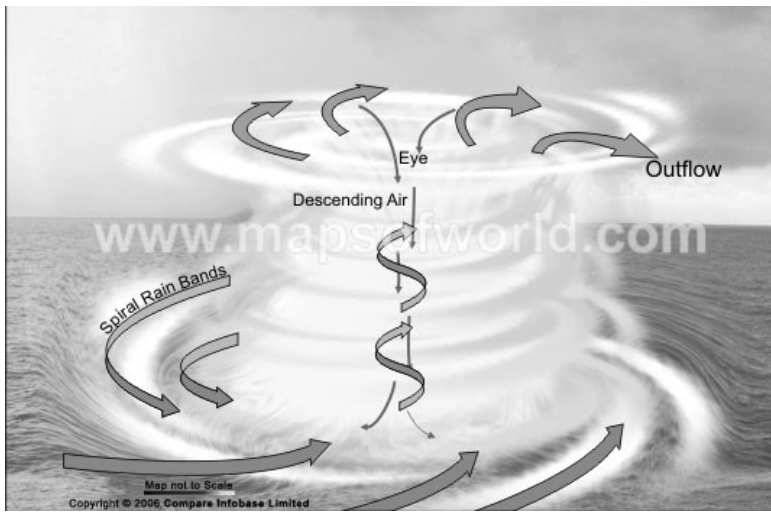
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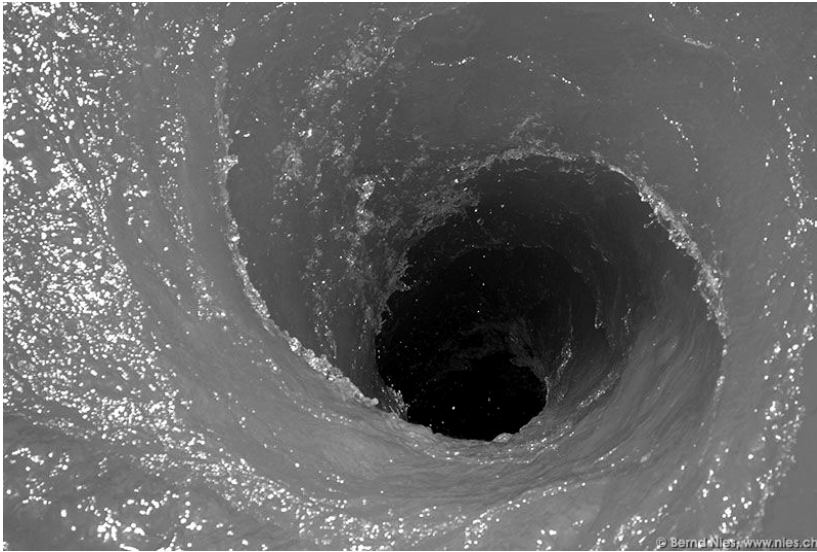
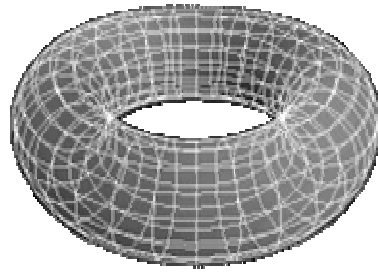
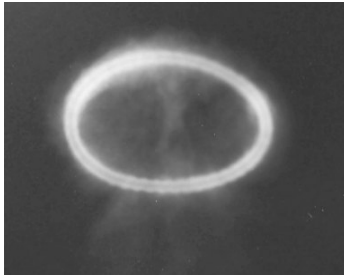
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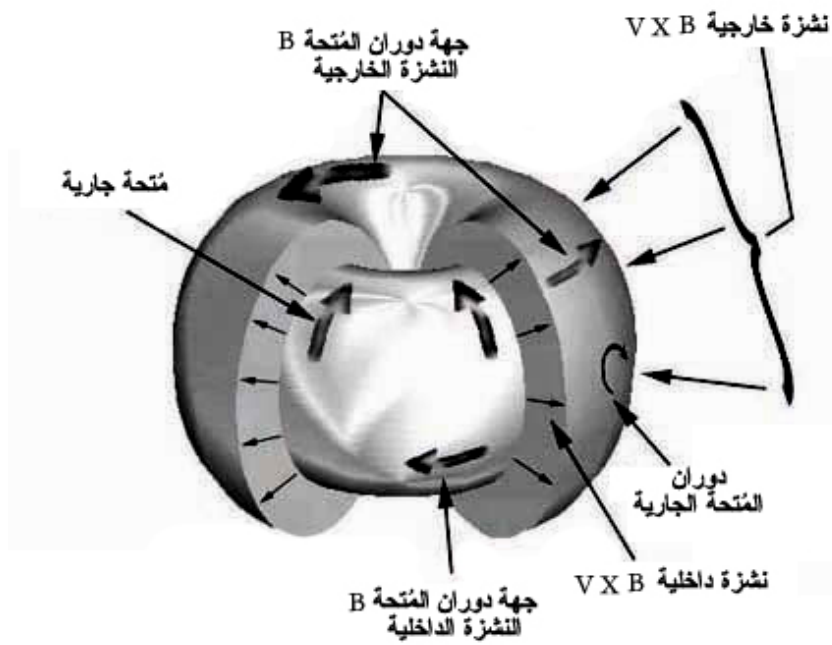
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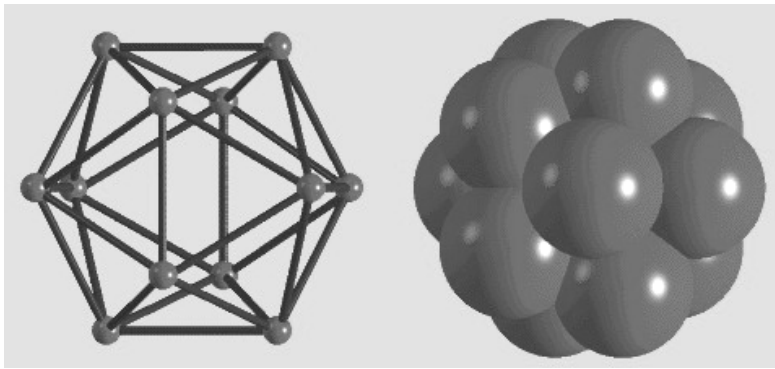
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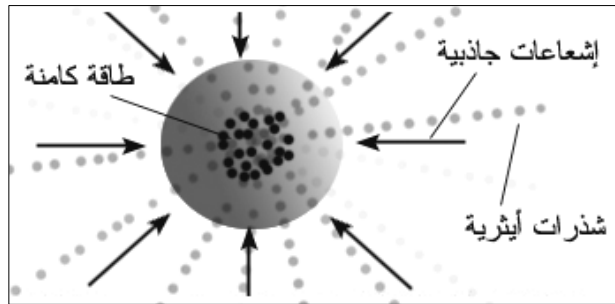
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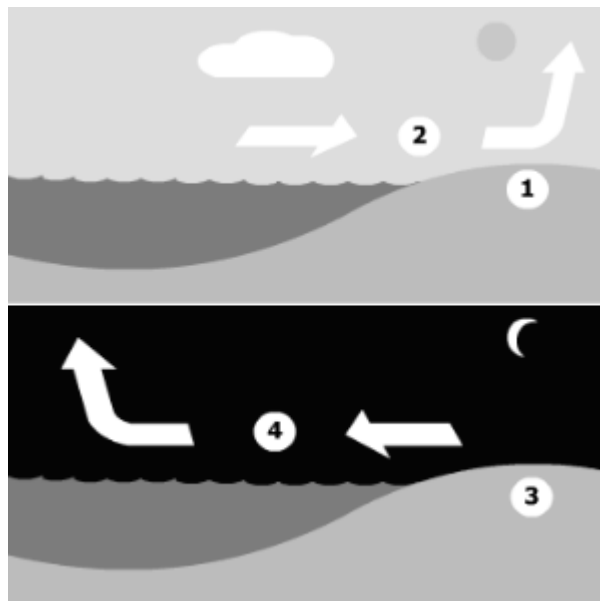
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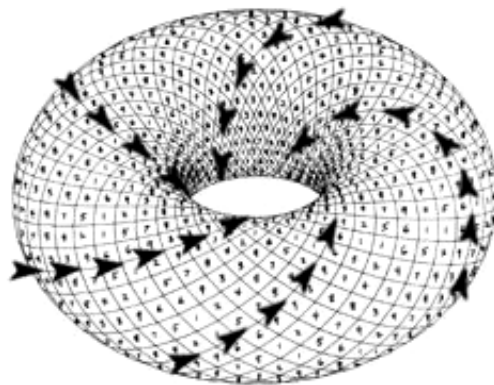
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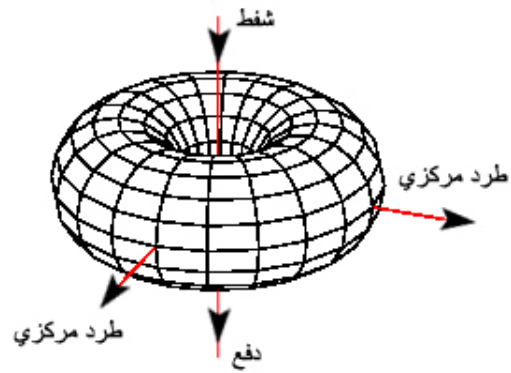
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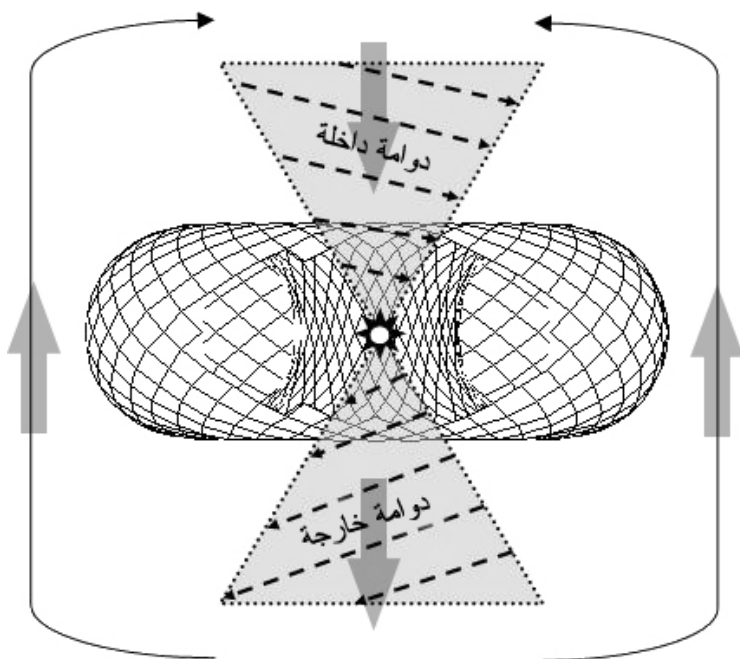


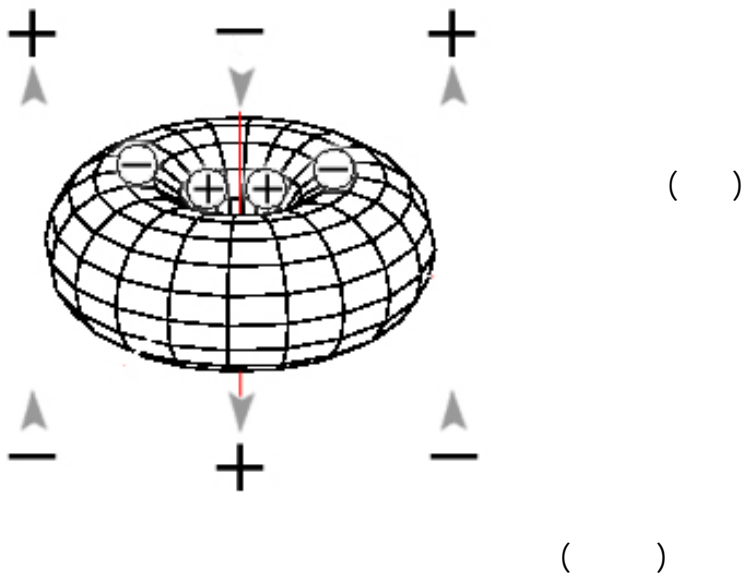
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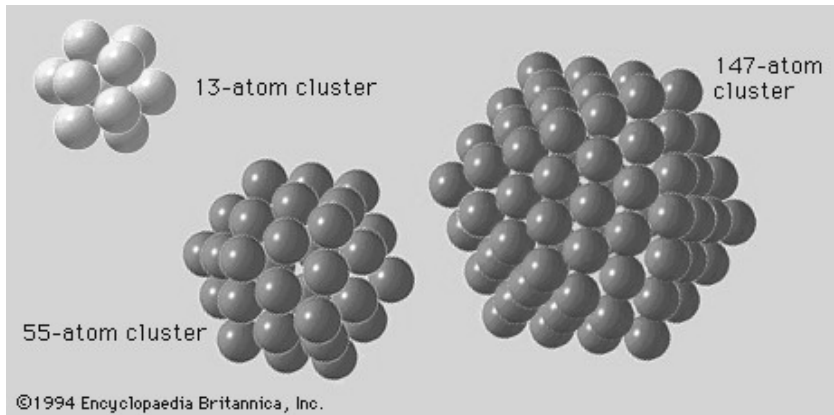


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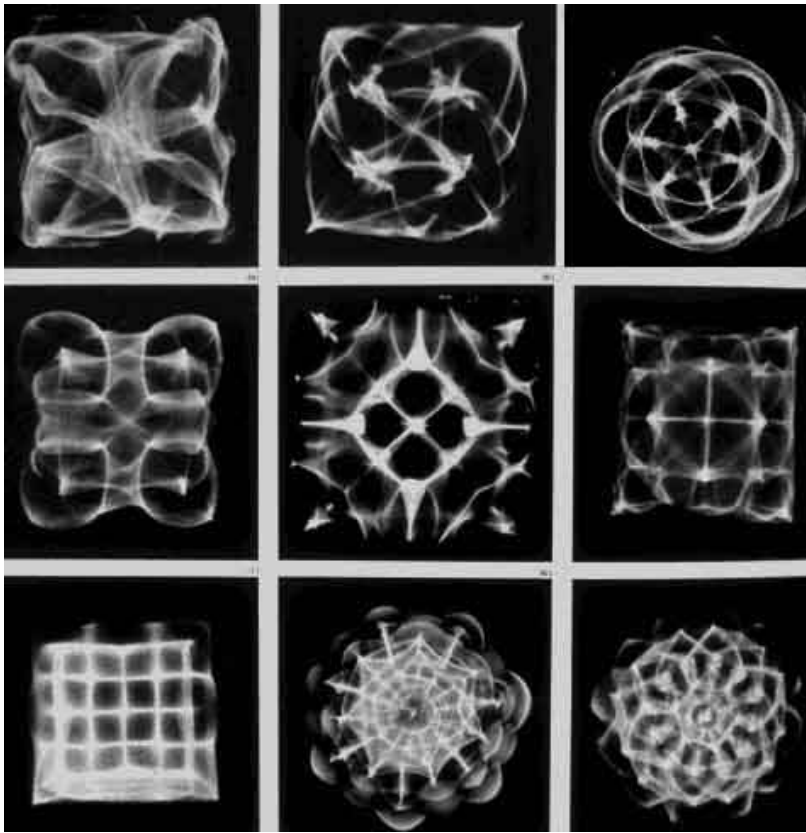


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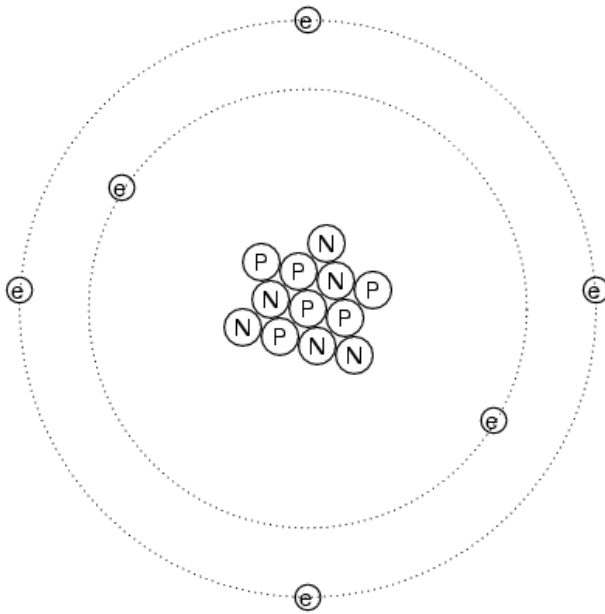
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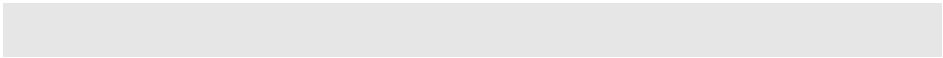
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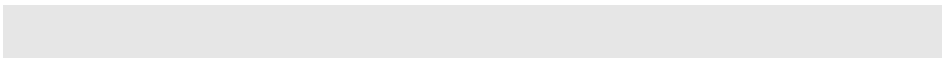
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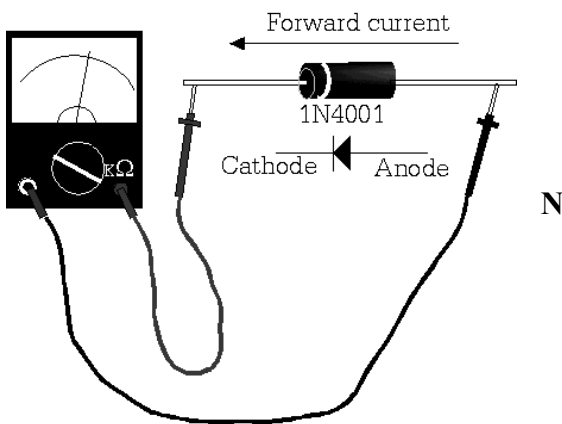
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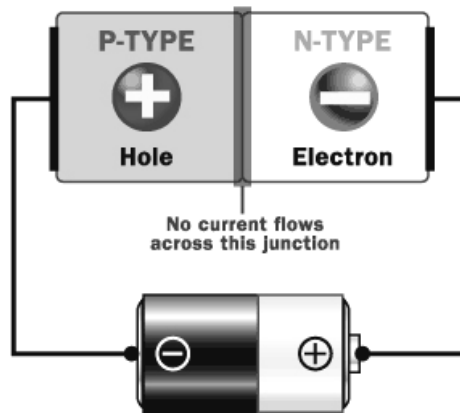
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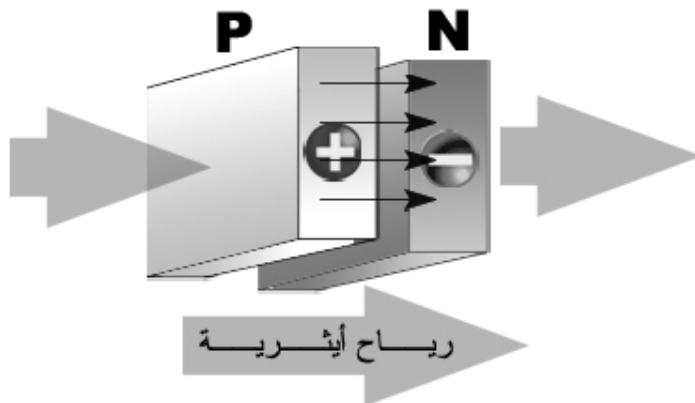


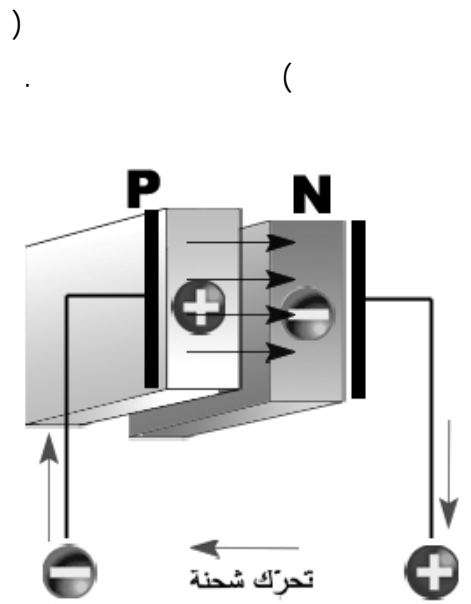
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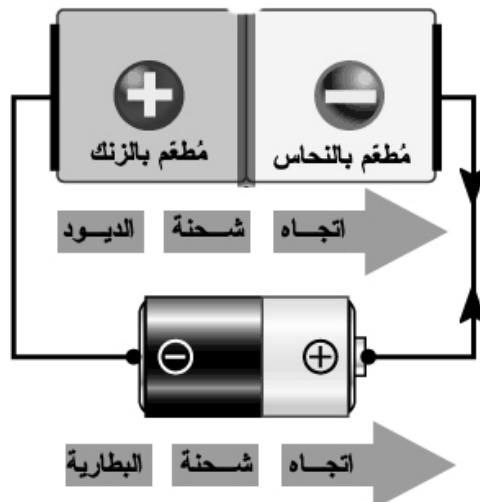
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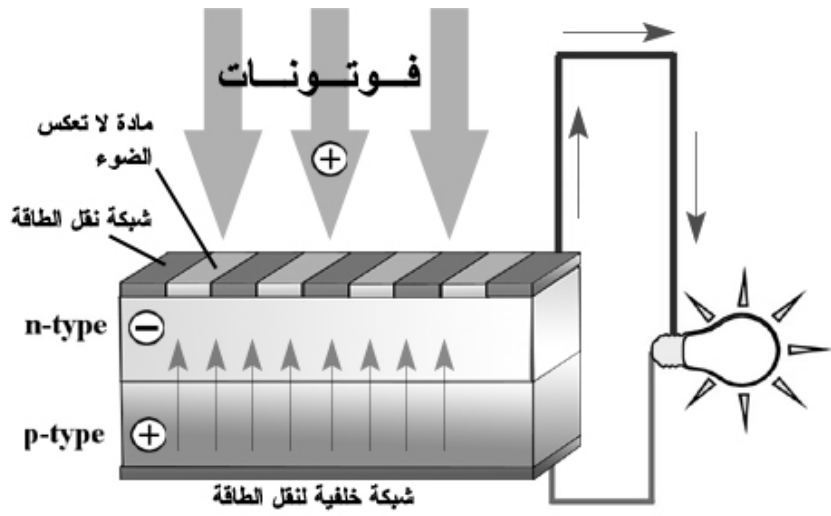


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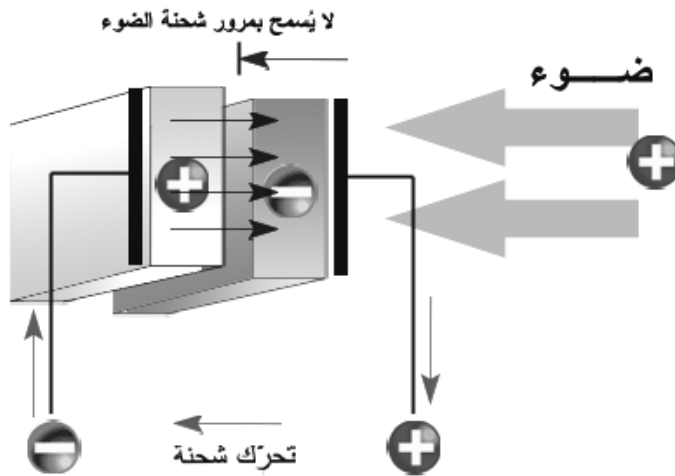


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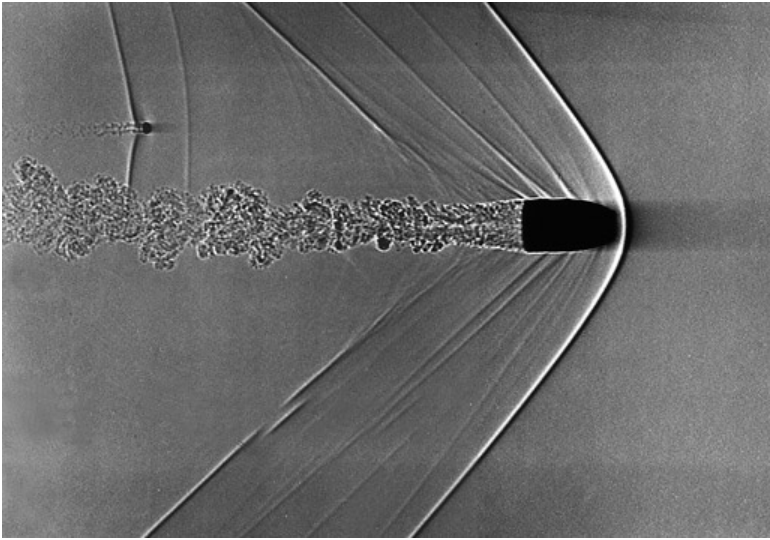
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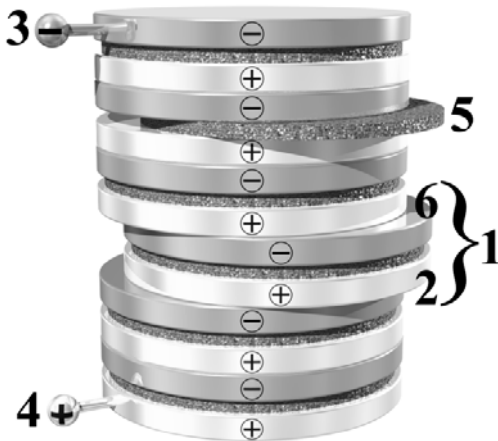
Voltaic pile ()

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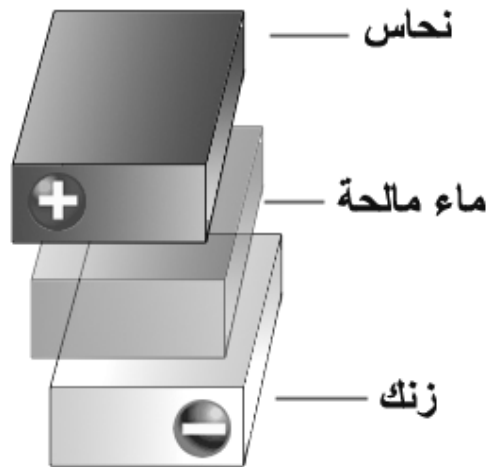
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Volta's contact law

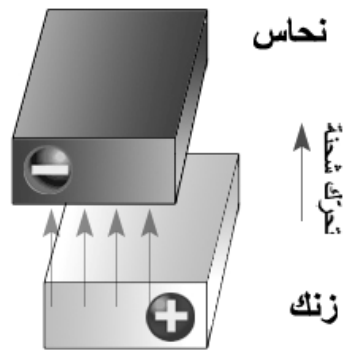
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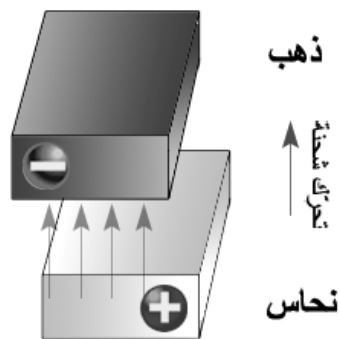
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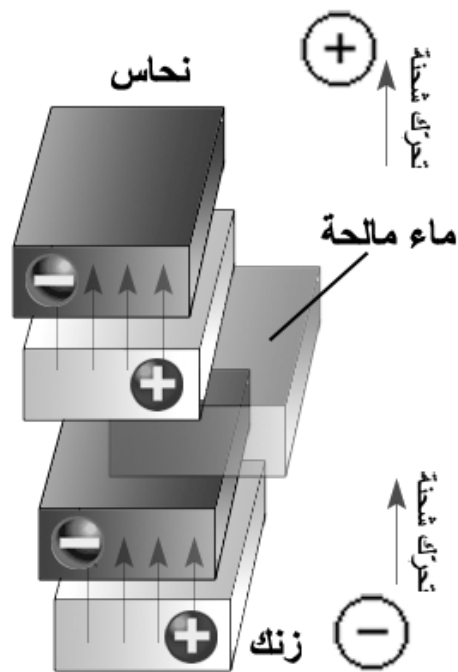


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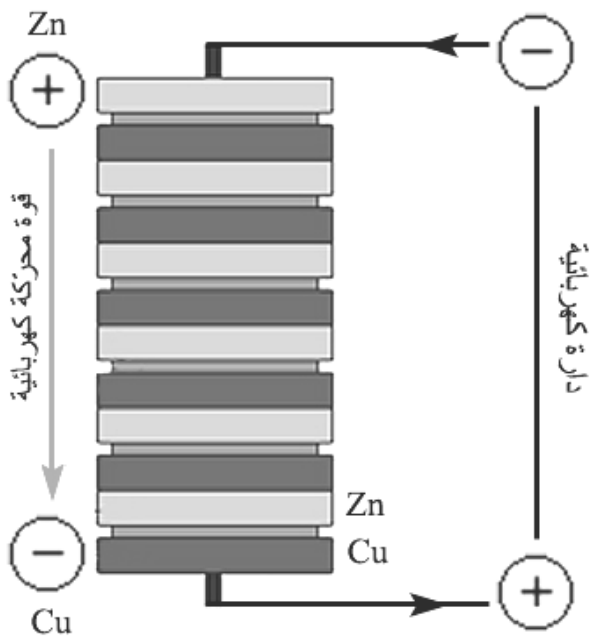
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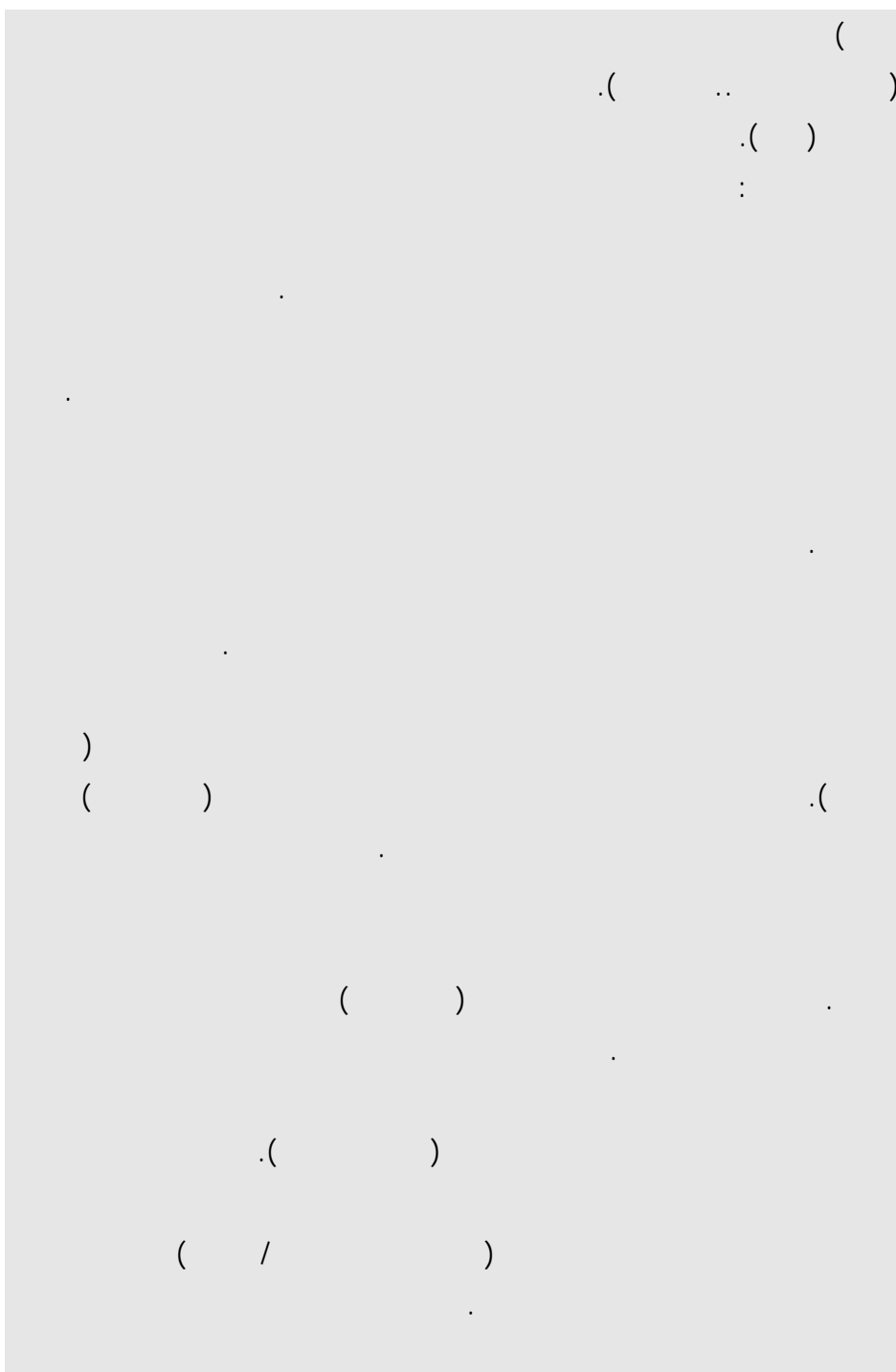
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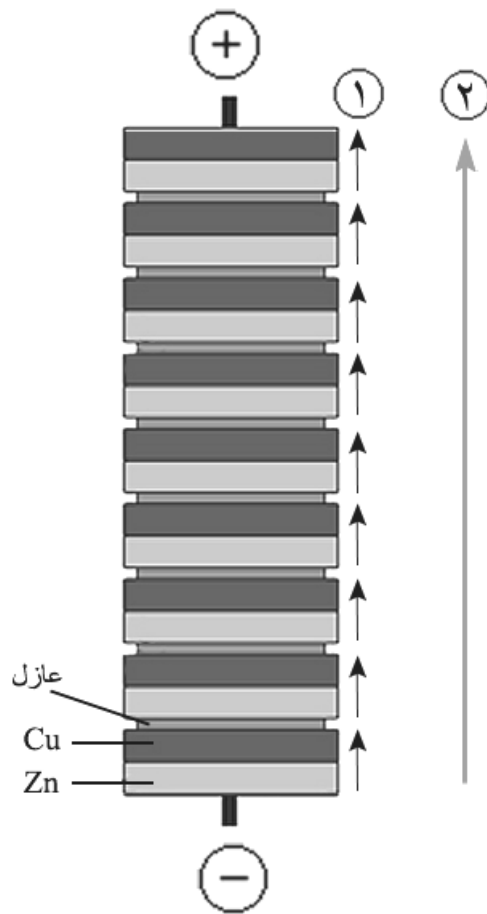
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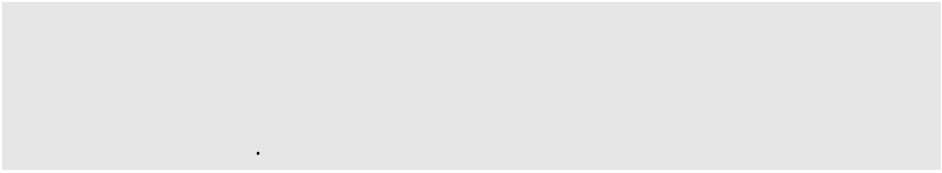
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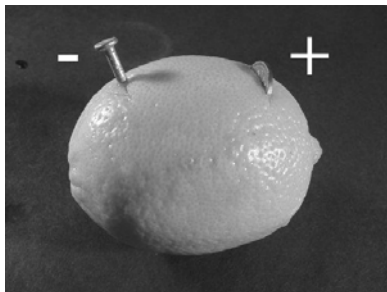
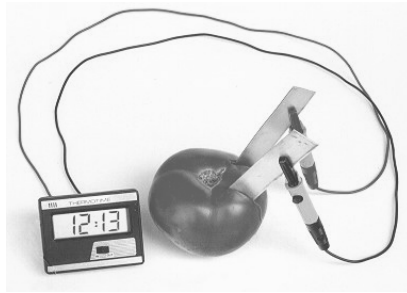
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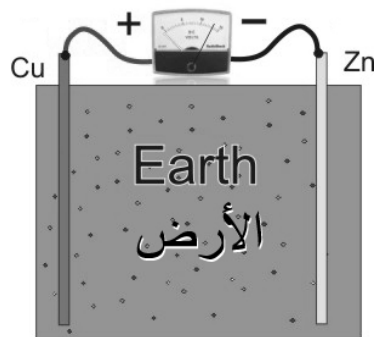
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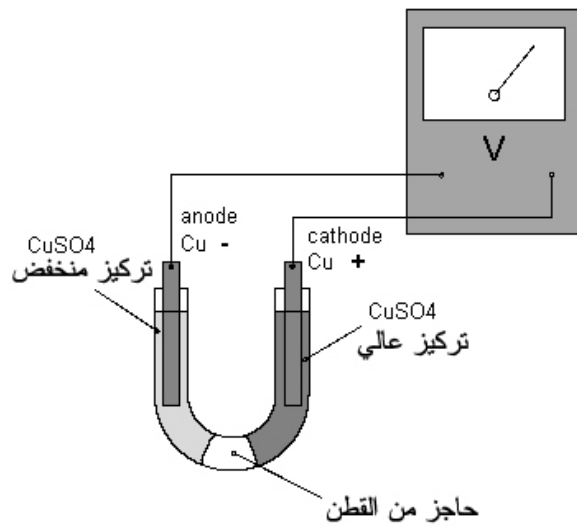
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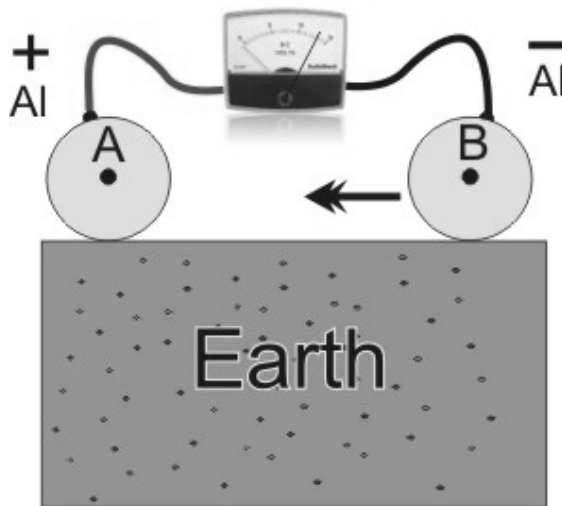


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asymmetry :

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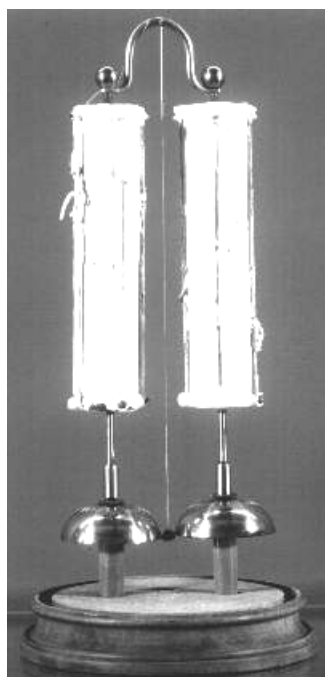
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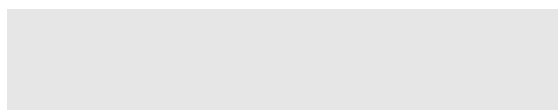
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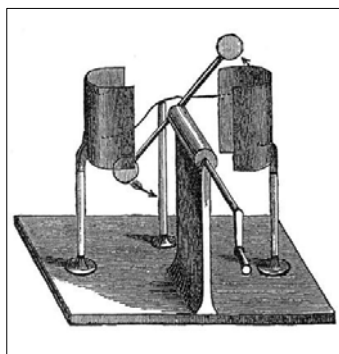
Clarendon Dry Pile "

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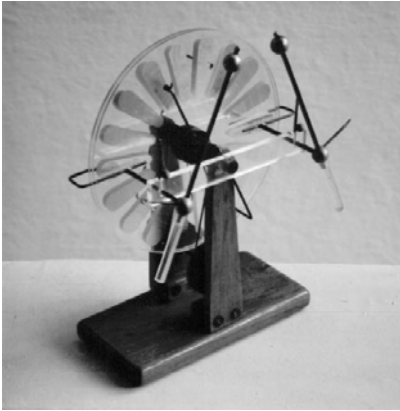


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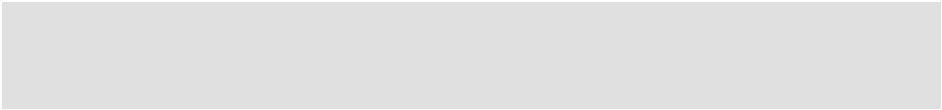
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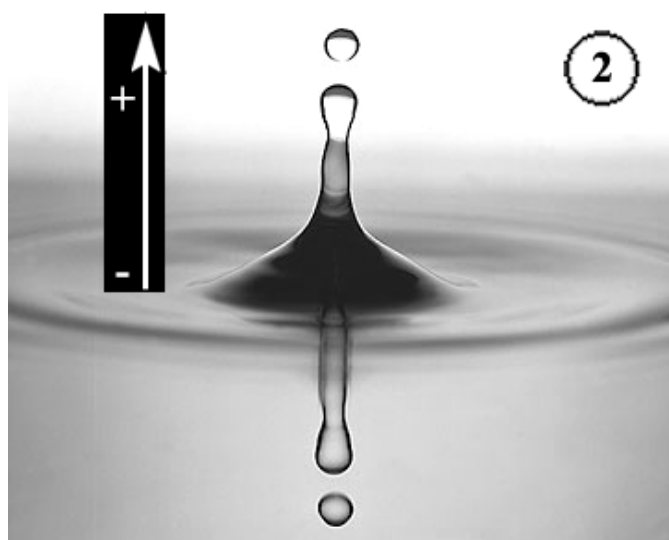
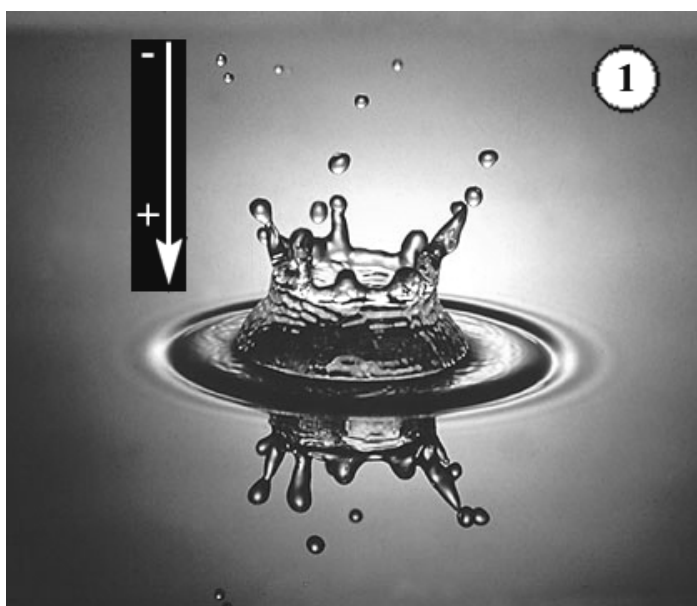
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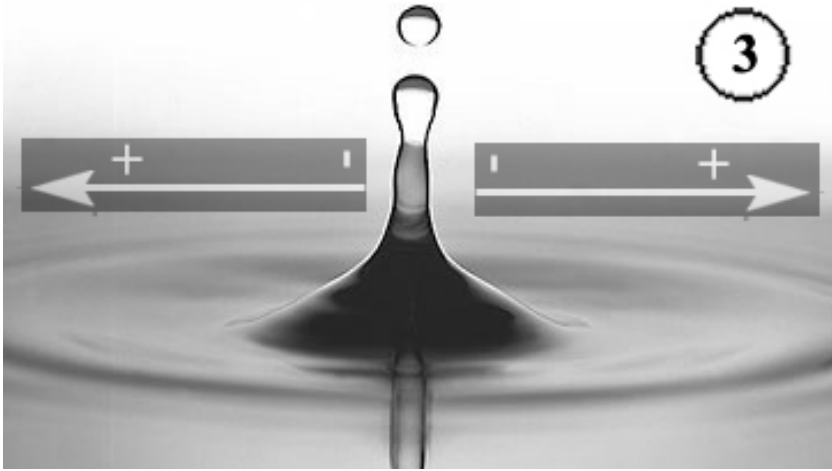
Back

EMF

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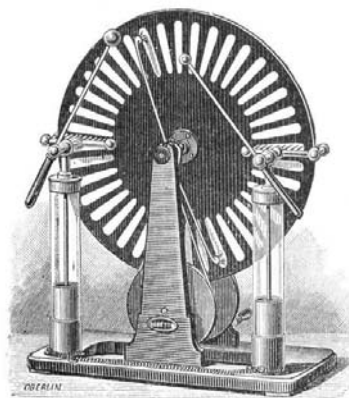
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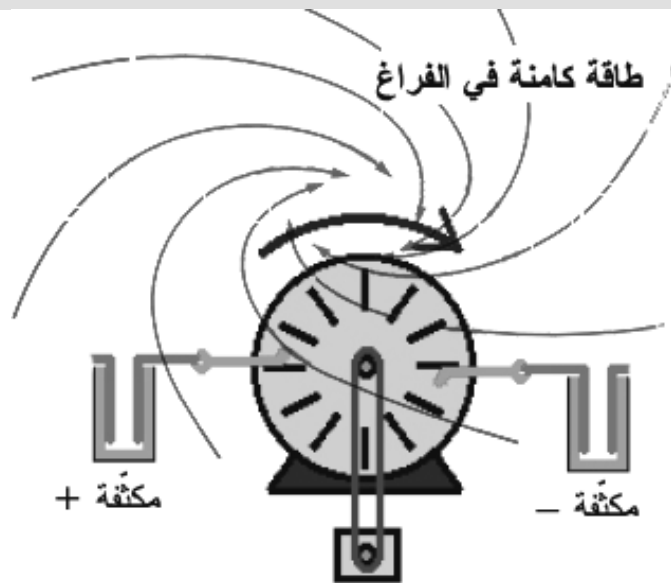
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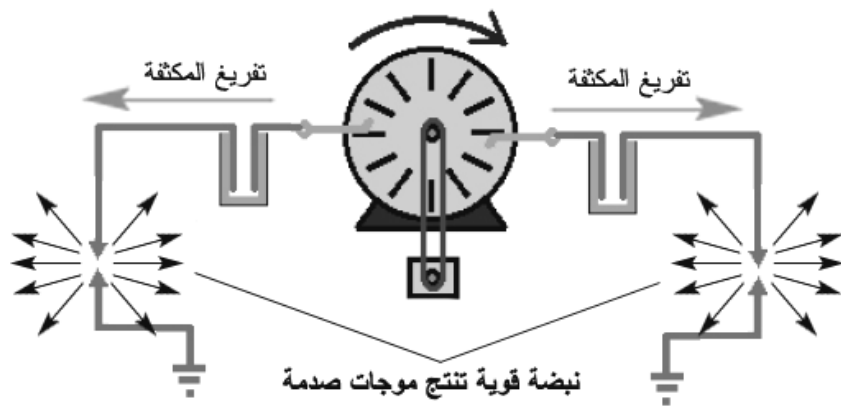


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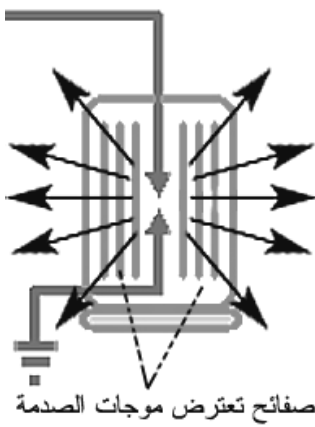
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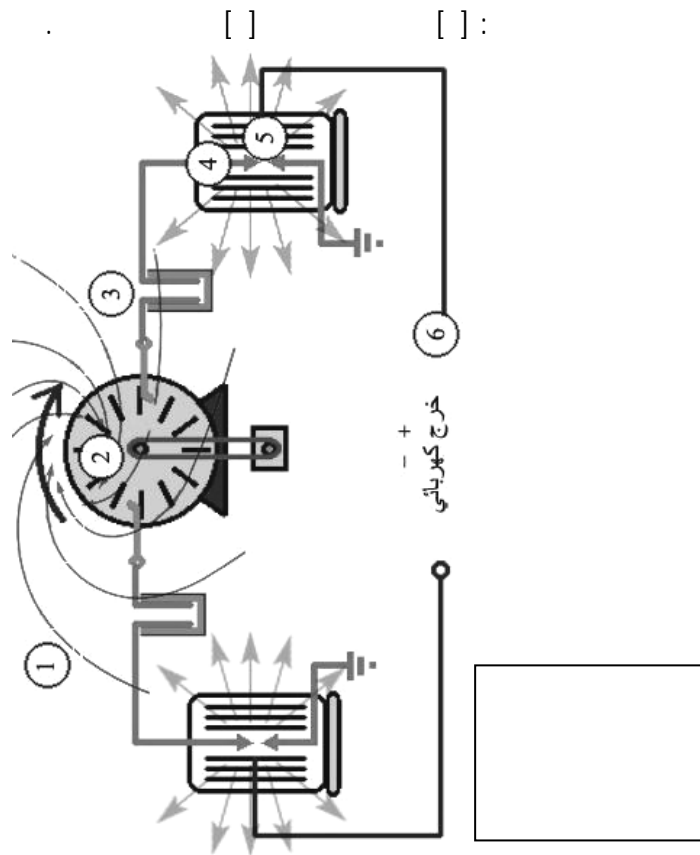
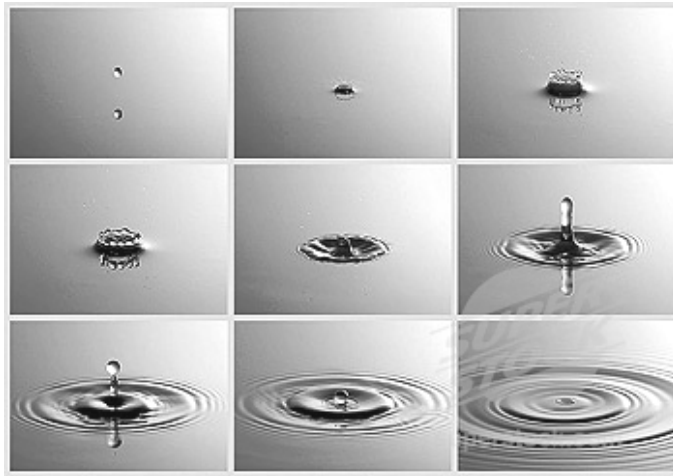


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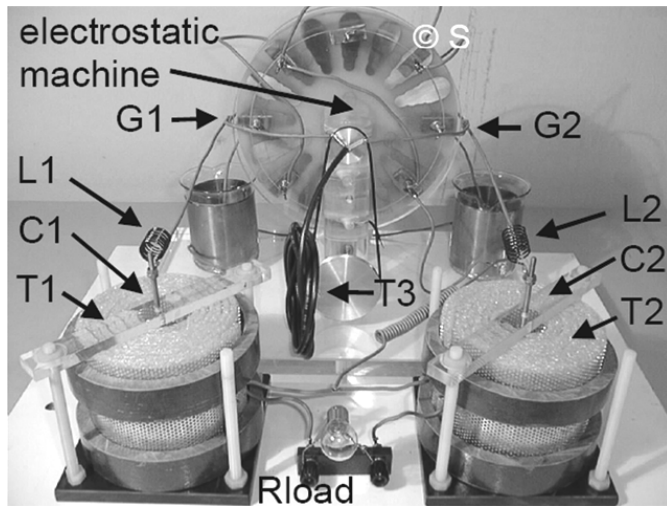
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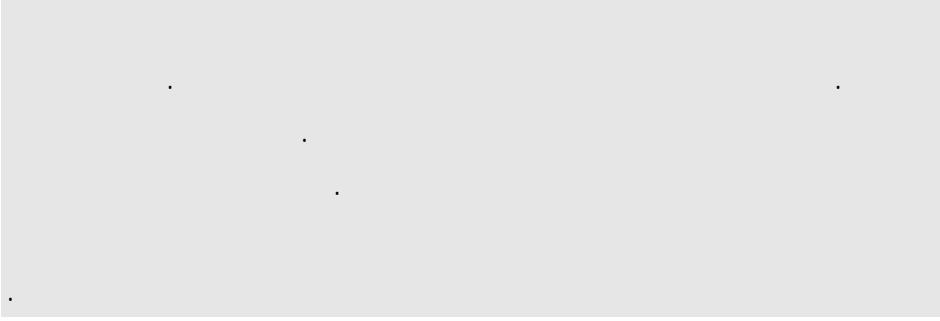
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: irrotational

$$\vec{\nabla} \times \vec{E} = 0.$$

: time-varying magnetic fields

$$\frac{\partial \vec{B}}{\partial t} = 0.$$

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magnetostatics

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() scalar function

ϕ .()

: E

$$\vec{E} = -\vec{\nabla}\phi = \frac{kQ}{r^2}.$$

.....

Coulomb's law

: Q Q

$$\vec{F} = \frac{Q_1 Q_2}{4\pi\epsilon_0 r^2} \hat{r}.$$

) (volts)
 .(coulombs) (newtons
 E

: Q

$$\vec{E} = \frac{Q}{4\pi\epsilon_0 r^2} \hat{r}.$$

Gauss' law

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.permittivity of free space "

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$$\oint_S \epsilon_0 \vec{E} \cdot d\vec{A} = \int_V \rho \cdot dV.$$

:

$$\vec{\nabla} \cdot \epsilon_0 \vec{E} = \rho.$$

Poisson's equation

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:P φ

$$\nabla^2 \phi = -\frac{\rho}{\epsilon_0}.$$

Laplace's equation

unpaired electric charge

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$$\nabla^2 \phi = 0,$$

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Electric charge

subatomic particles

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.e

. +

.+ $\frac{2}{3}$

− $\frac{1}{3}$

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Quarks

antiparticle equivalents

Coulomb's law

non-

zero

()

free

) bound charge

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.(charge

(

electrolysis

.oil-drop experiment

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6.24×10^{18}

coulomb

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.Q

.ballistic galvanometer

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Thales of Miletus "

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.Turboelectric effect

electricus "

De Magnete "

elektron *ηλεκτρον*

electric

electricity

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.two-fluid theory ()

) *vitreous electricity*

(

.*resinous electricity*

one-fluid theory

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electron "holes" "

$$\left(\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right)$$

electrolytic

$$\left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right)$$

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q

.relativistic invariant "

.q

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Conservation of charge

gauge invariance

) wave function

continuity equation

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V

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S

$$-\frac{d}{dt} \int_V \rho dV = \int_S \mathbf{J} \cdot d\mathbf{S} = \int JS \cos \theta = I.$$

continuity

: equation

$$I = -\frac{dQ}{dt}$$

Q

I

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Triboelectric effect

contact electrification " "

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Thales of Miletus " "

.electron " " electricity " "

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Polyurethane

PVC

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tribos

adhesion

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triboelectric effect
adhesion ()

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contact

pyroelectric

electrification

nano-effects

atomic force microscope

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electric current

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T

Q

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$$I = \frac{Q}{T}.$$

T

: $i(t)$ ()

$$i(t) = \frac{dQ}{dt}.$$

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DC voltage

source

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I

$$I = \frac{Q}{t}$$

$$\frac{Q}{t}$$

$$t = \frac{Q}{I} \quad Q = It$$

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$$I = nAvQ$$

$$\frac{I}{n}$$

A

v

Q

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cathode ray tube "

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Ohm's law

resistor

:resistance

voltage

$$I = \frac{V}{R}$$

I

V

R

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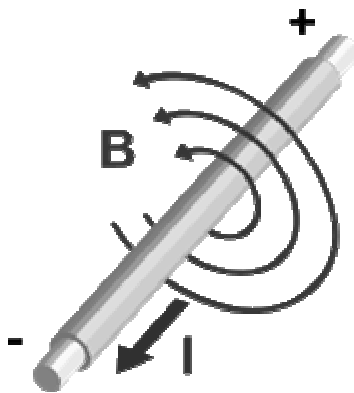
plasma

) holes

.(neutral

.p-type semiconductor

.(aurora borealis aurora australis)



galvanometer

Hall effect sensors

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.Rogowski coils

transformers

Circuit theory

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$d\mathbf{D}/dt$ displacement current

conservation of charge

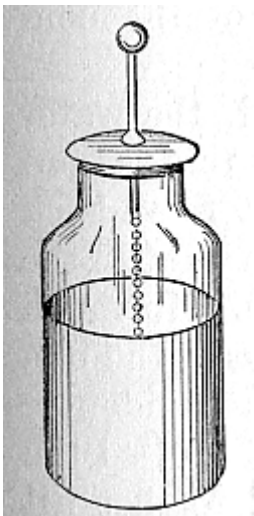
.aether

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Leyden jar

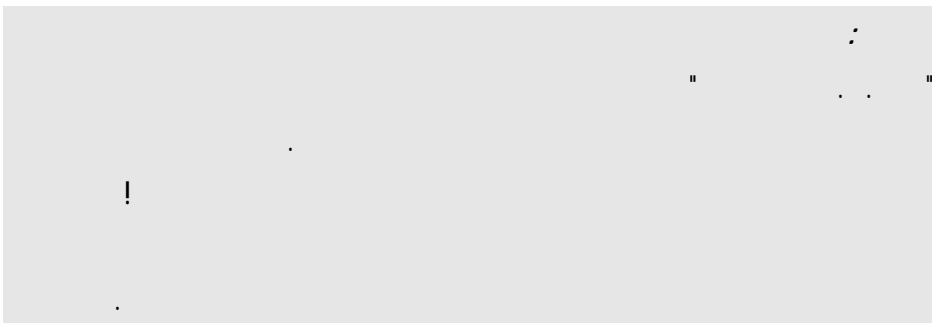


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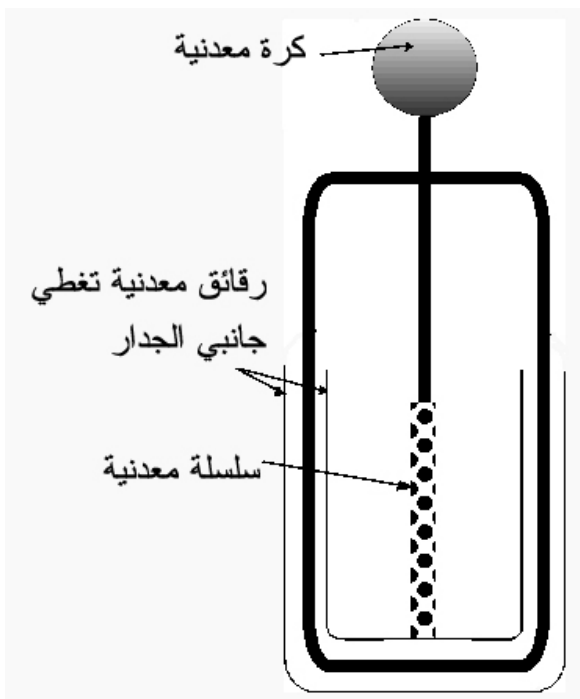
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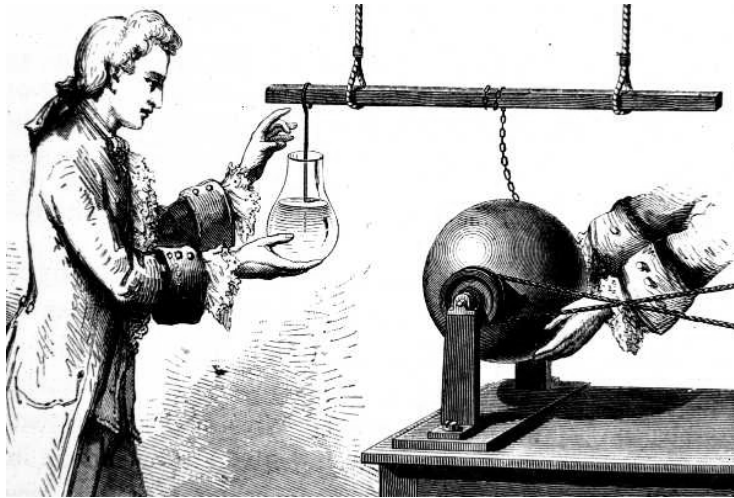
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capacitor "



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.corona discharge

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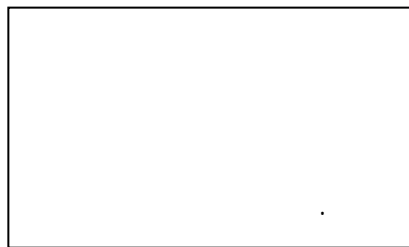
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corona discharge

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contact electrification

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electrostatic charge "

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.() imbalance

.contact tension "

" contact electrification

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.Voltaic pile (

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() fuel cells

batteries

thermocouples

electroplating

radio detector diodes

semiconductor

LEDs

photocells

..thermoelectric cells

electrochemistry

contact tension "

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corrosion

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capacitance electroscope

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.Triboelectric effect

high
tribo " " .voltage

quantum tunneling

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electrolyte ()

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.half-cell reaction

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Galvanic cell

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.Volta effect

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thermocouple

.Peltier-Seebeck effect "

difference of potentials "

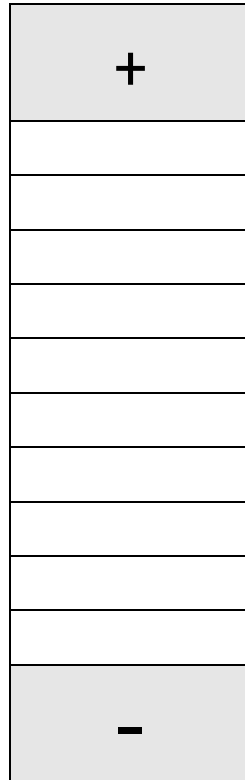
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:Volta's contact law



(+)

EMF

.EMF

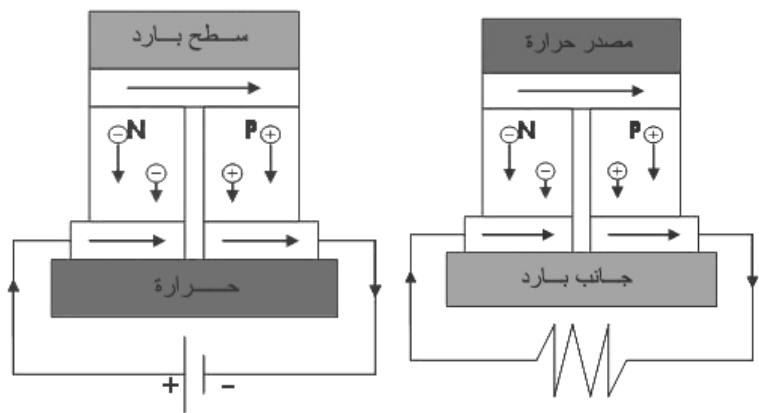
positive (+)

potential

Peltier-Seebeck "

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thermocouple
.effect



Semiconductor

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rectifier

diode

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.Doping

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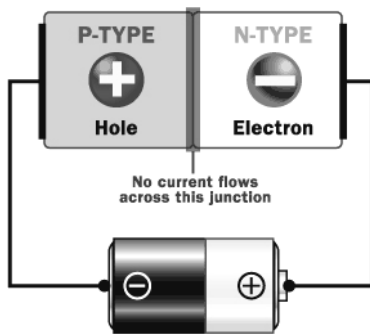
Negative

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Positive

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holes



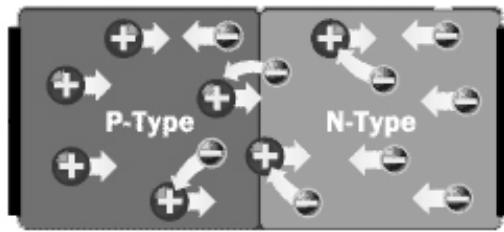
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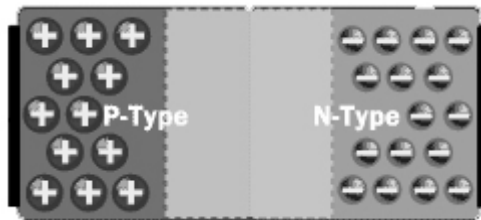
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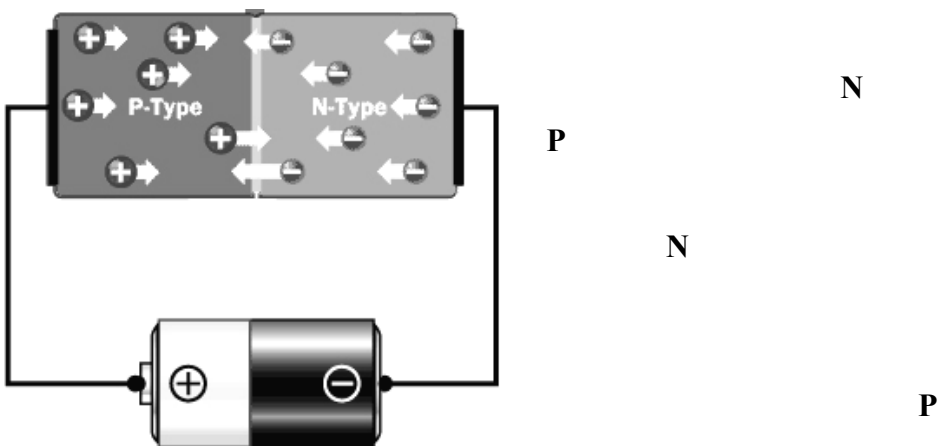
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Depletion Zone



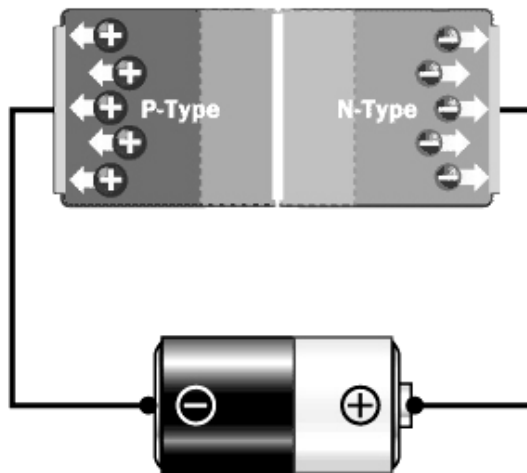
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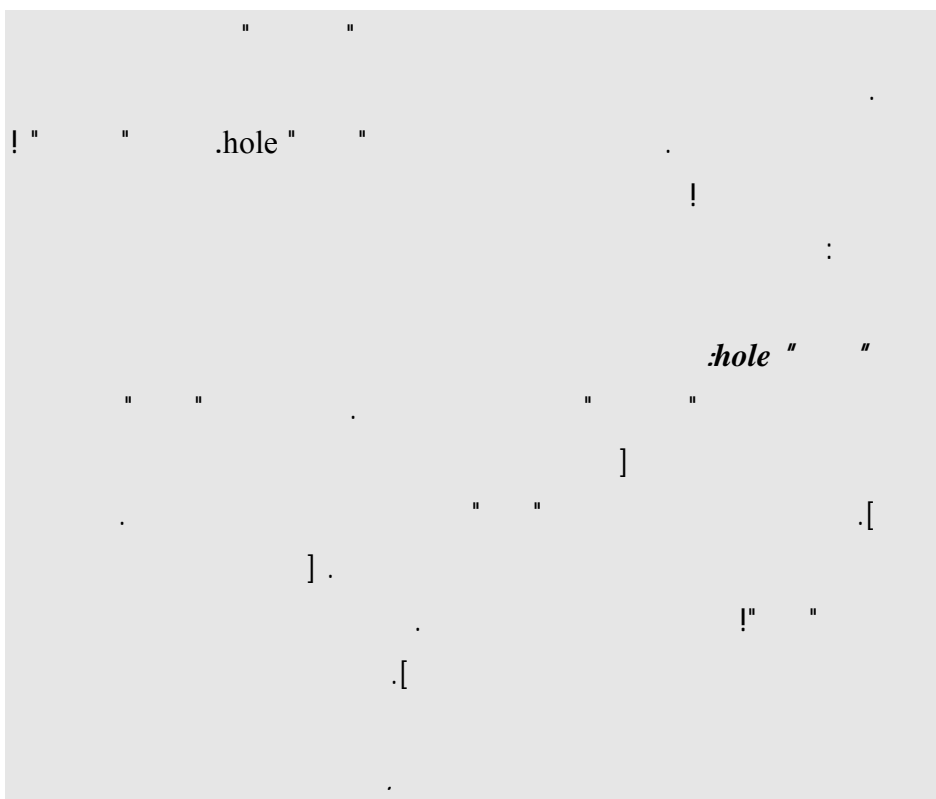
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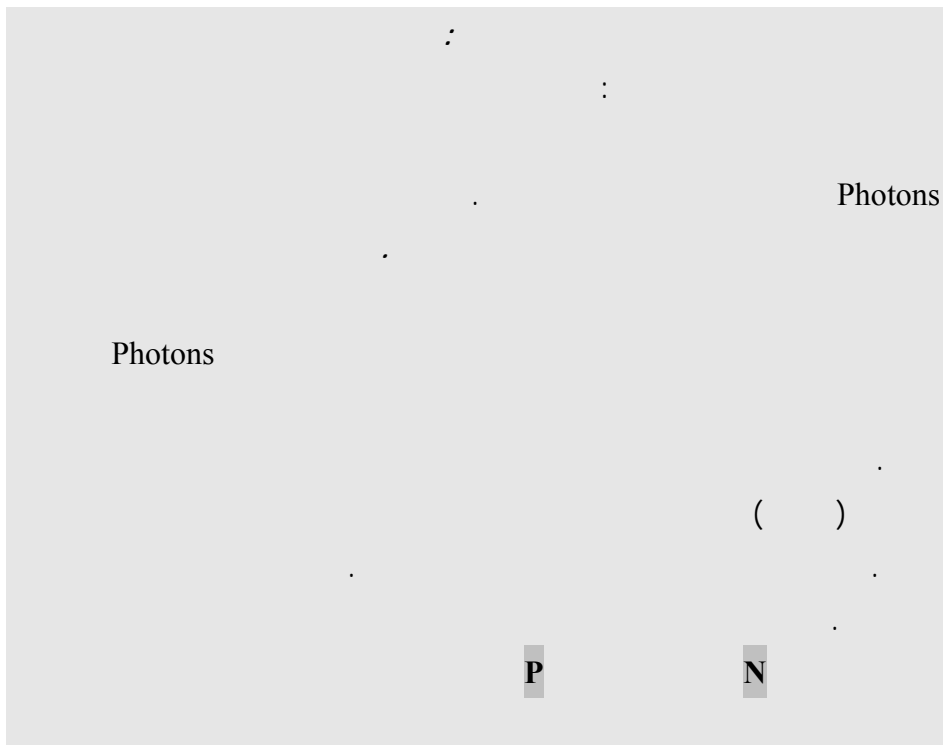
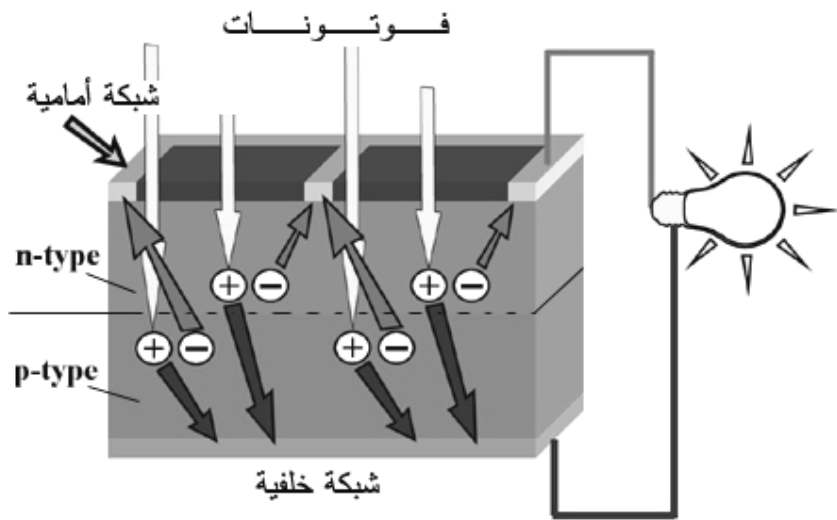
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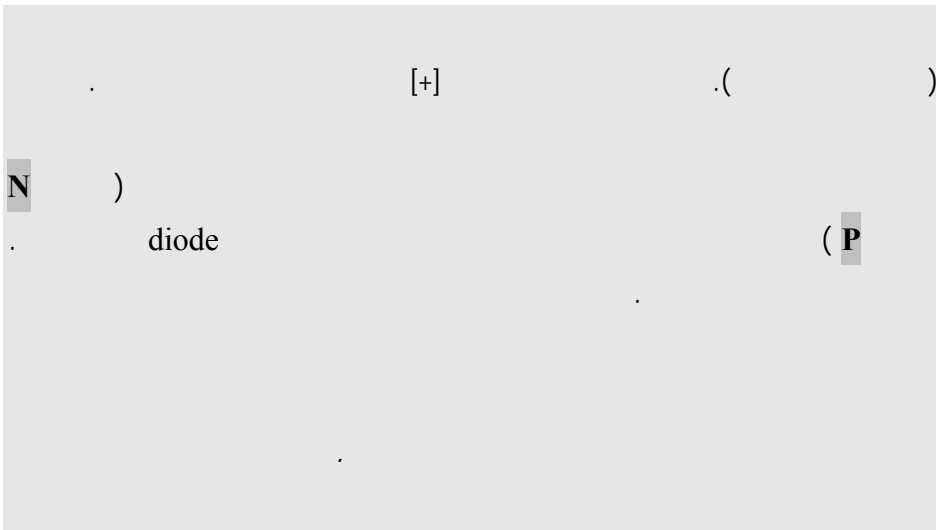
diode (



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.solar cells

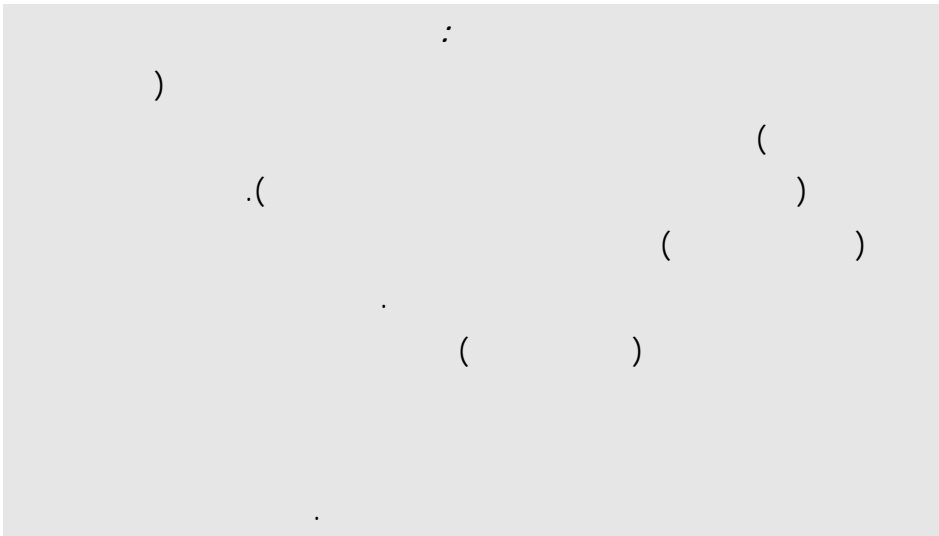




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Voltaic pile
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electrolysis

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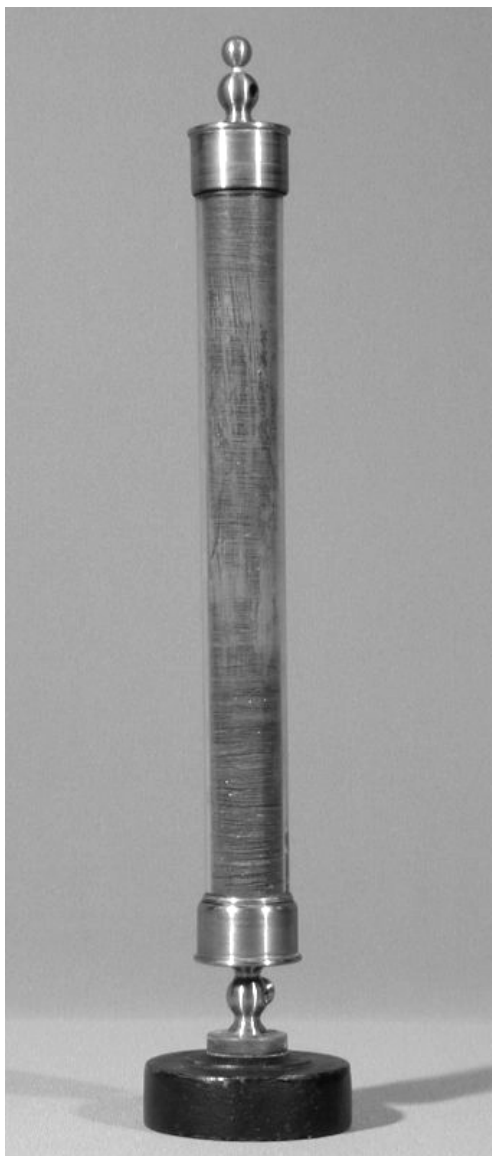
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Dry-Pile
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contact tension "

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Clarendon Dry Pile "

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Willem Hackmann "

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The Enigma of Volta's "Contact Tension" and the Development of the "Dry Pile"

dry pile

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Nahum Kipnis " Helge Kragh

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Leyden jar "

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Dyckhoff "

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Peter Ludwig Maréchaux "

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) Jean Nicholas Pierre Hachette "

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() Charles-Bernard Desormes "

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) Thomas George Bernhard Behrens "

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.() Paul Erman "

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micro-electrometer "

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Galvanic Society

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Giuseppe Baronio " "

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Maréchaux " "

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Annalen der Physik

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Zamboni " " de Luc "

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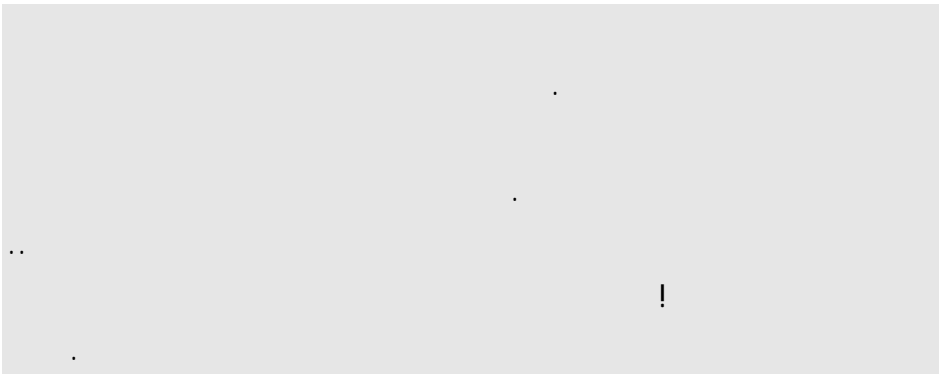
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J.A. de Luc

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" " Charlotte " "

Gottingen " "

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Philosophical Transactions " "
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Journal of Natural Philosophy, Chemistry, and the Arts "

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Humphrey Davy "

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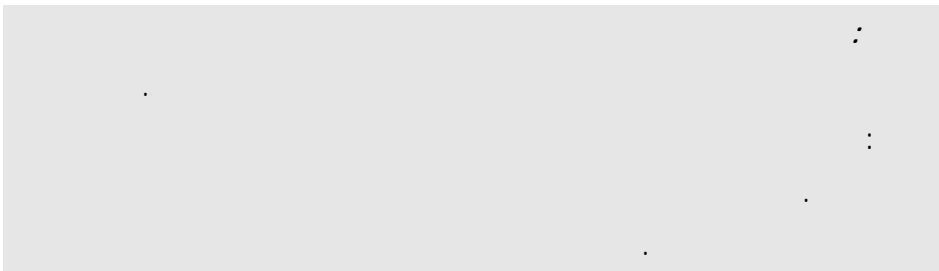
On the Electric Column, and "

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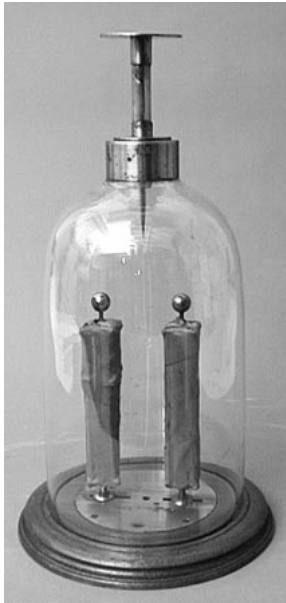
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B.M. Forster "

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.Thomas Howldy "

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George John Singer "

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Elements of Electricity

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.and Electro-Chemistry

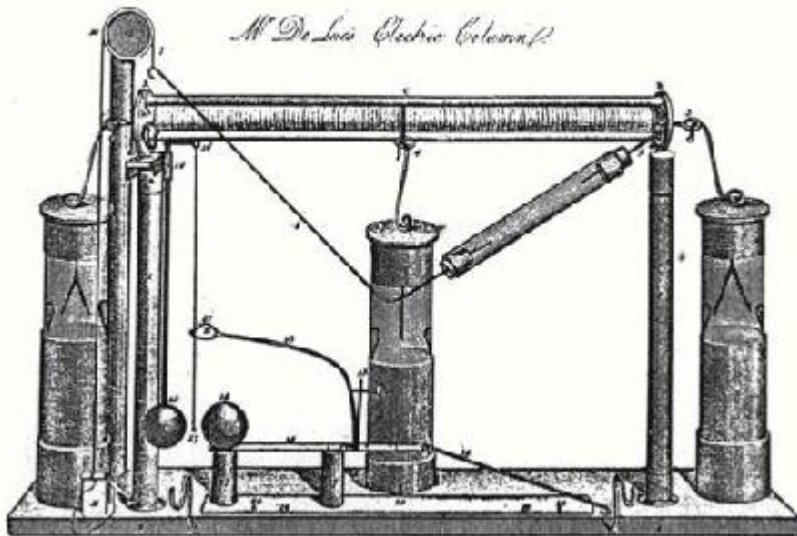
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Giuseppe Zamboni



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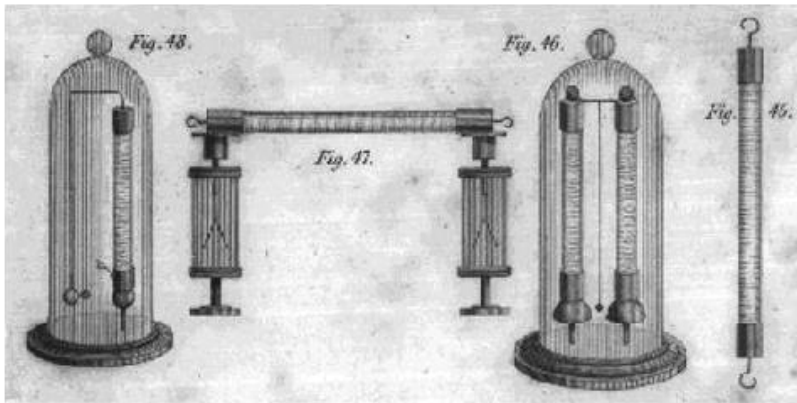
sulphate

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turpentine

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electrical perpetuum " "

Giornale di fisica: " " mobile

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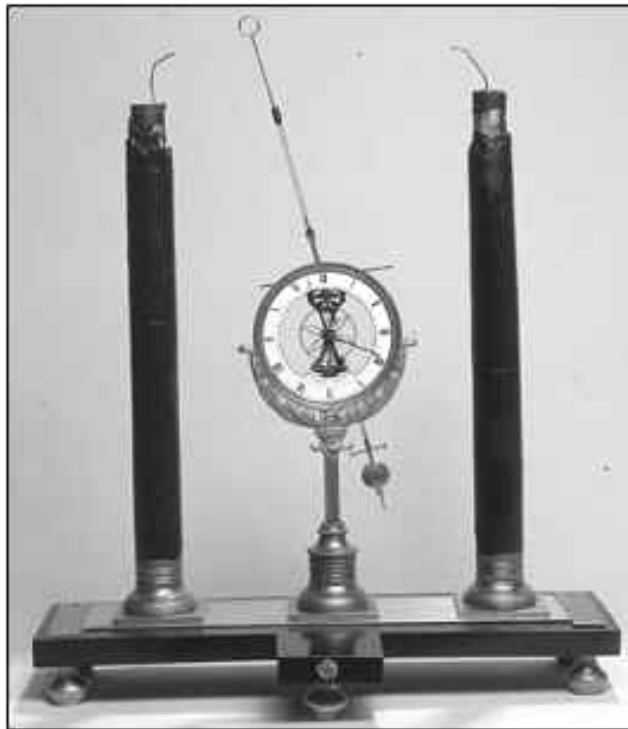
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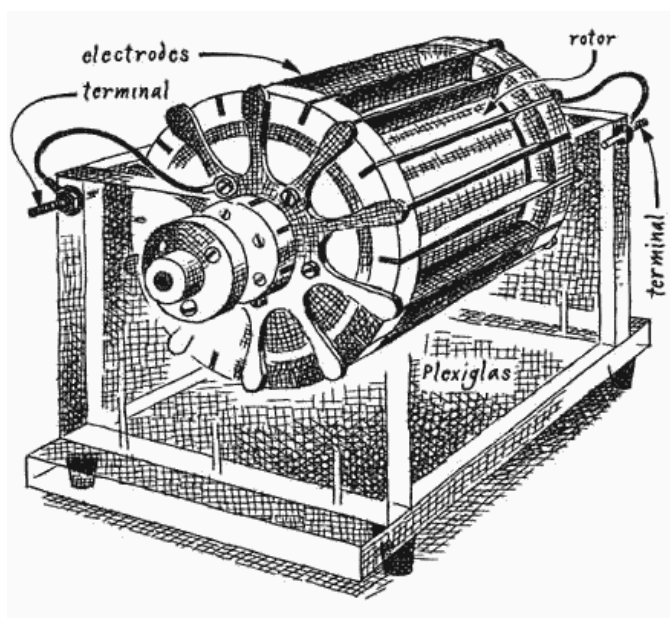
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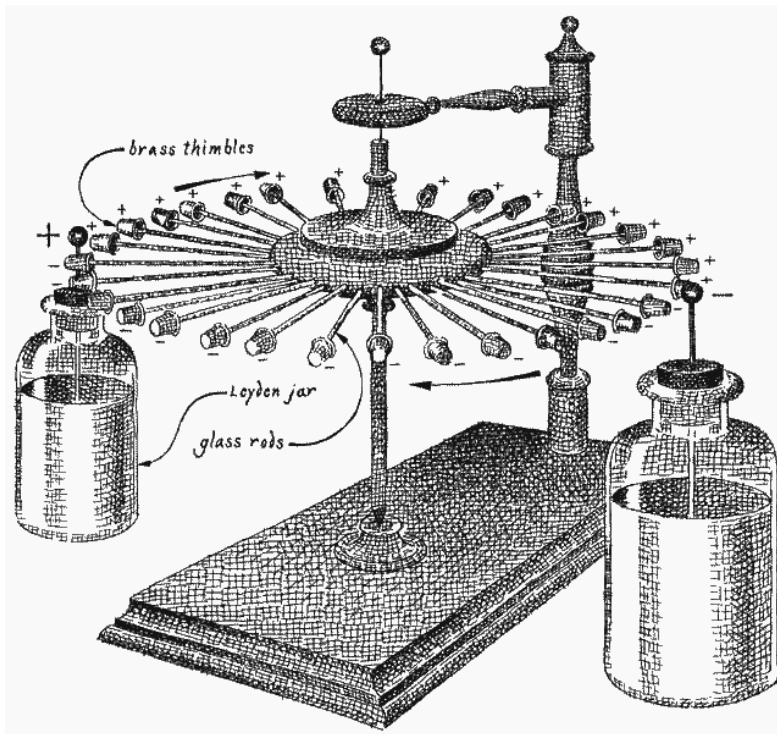
.Leyden jars " "

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electrostatic

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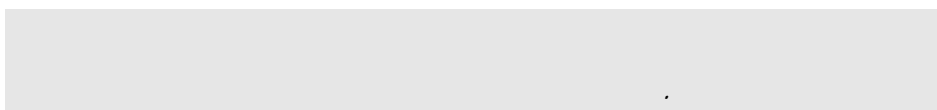
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colloids



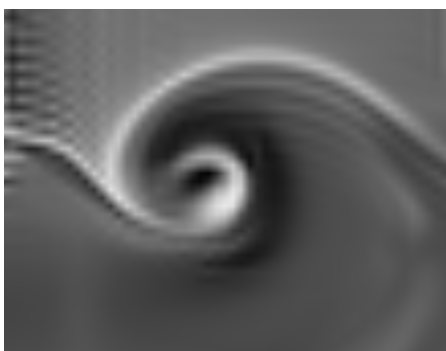
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Ramacharaka

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vortex flow

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Victor Schauderger

Implosion

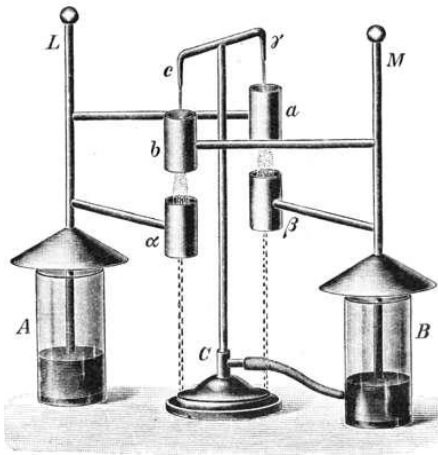
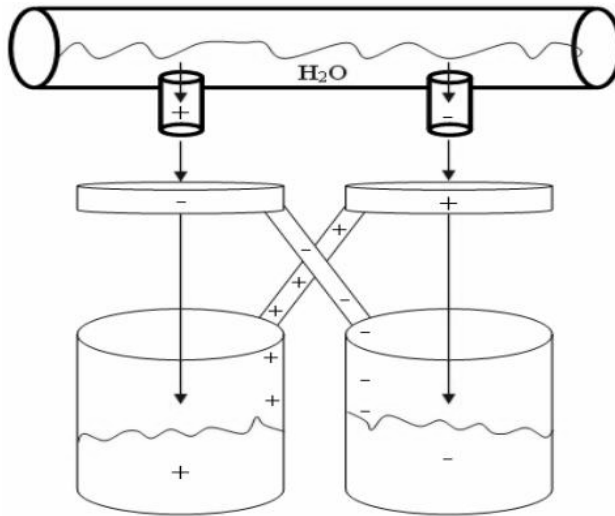
Callum Coast

.Living Energies " "



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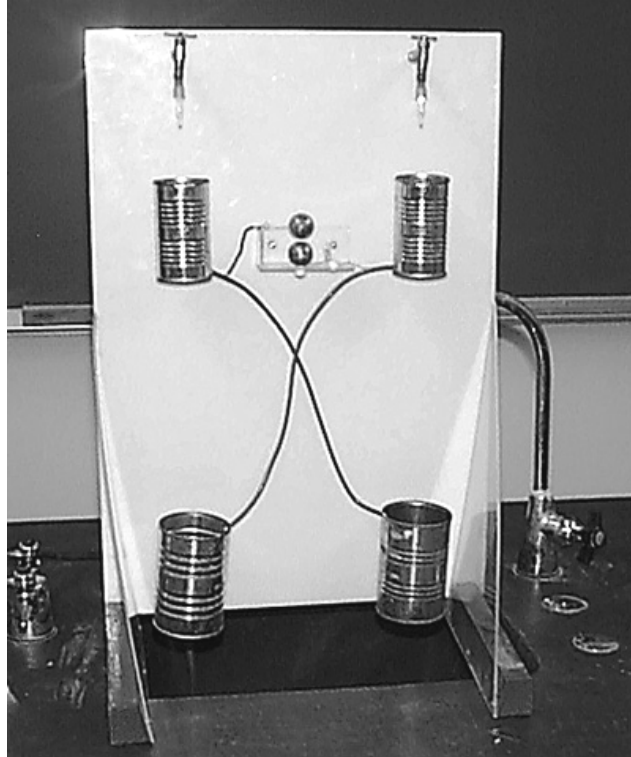
.water-dropping condenser "

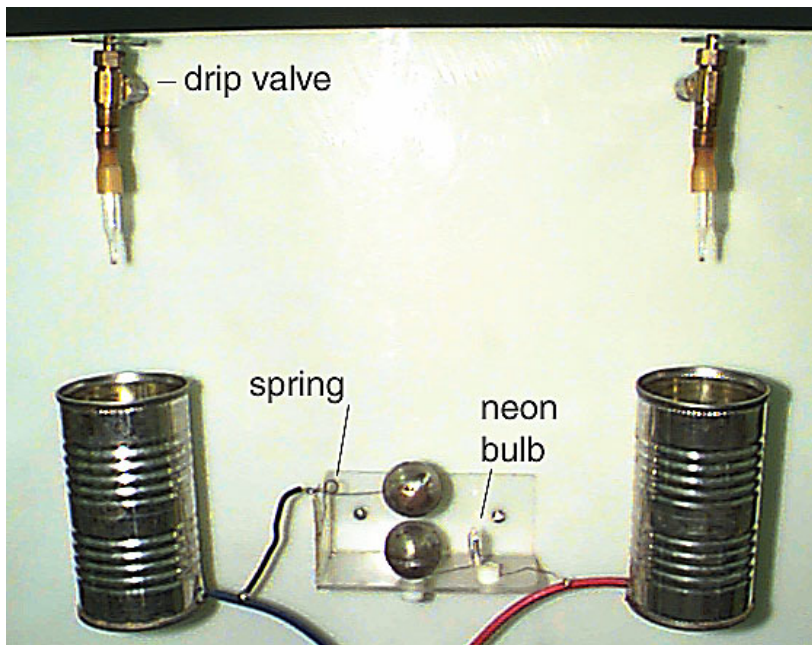
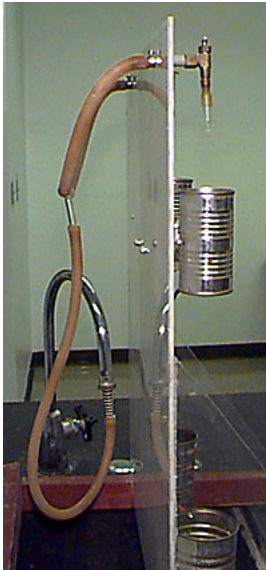


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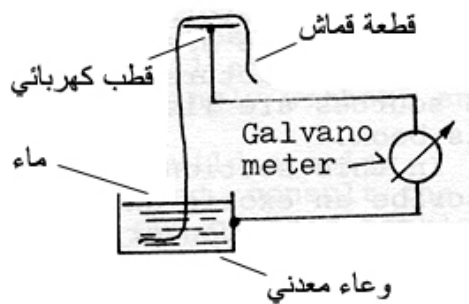
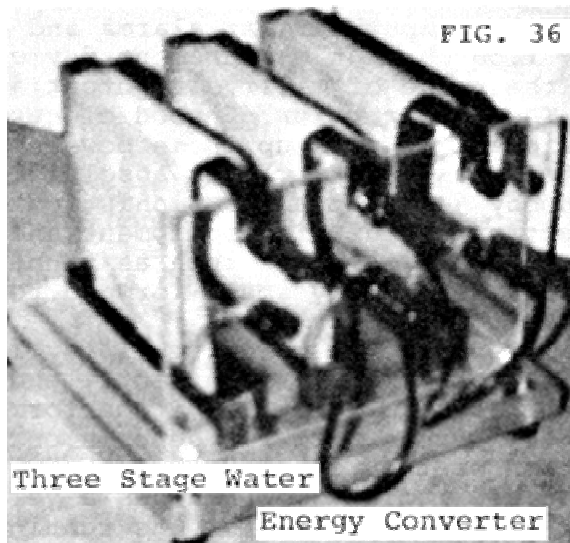
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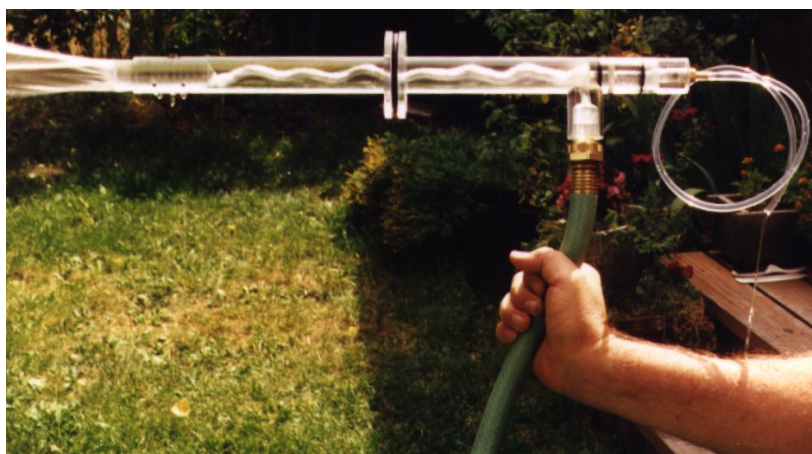
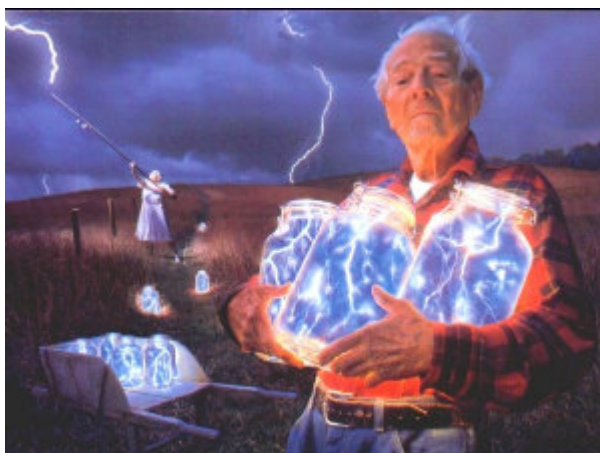




water Energy Converter

Paul Monus





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Joe Cell

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electrostatic generators

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(..)

friction

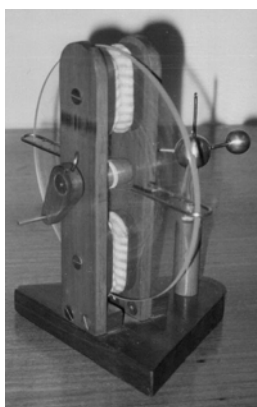
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.influence machines

machines

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friction machines



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friction machines "

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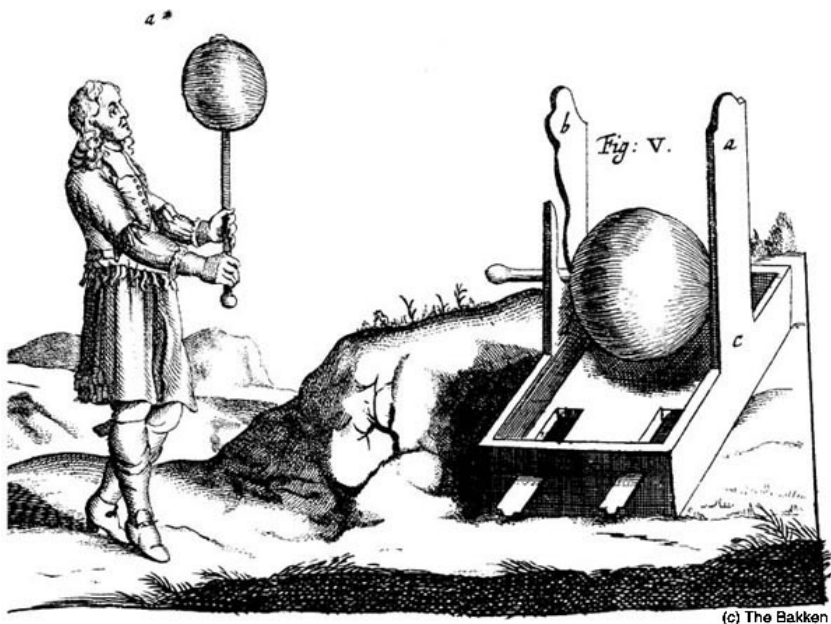
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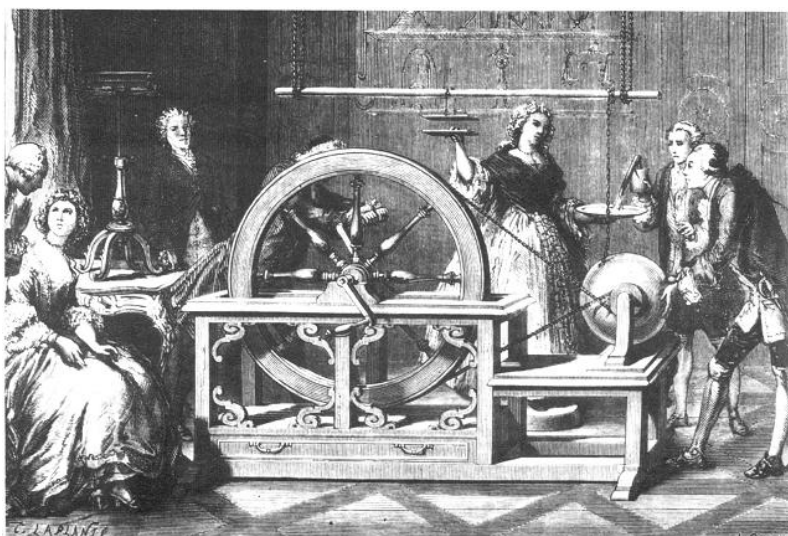
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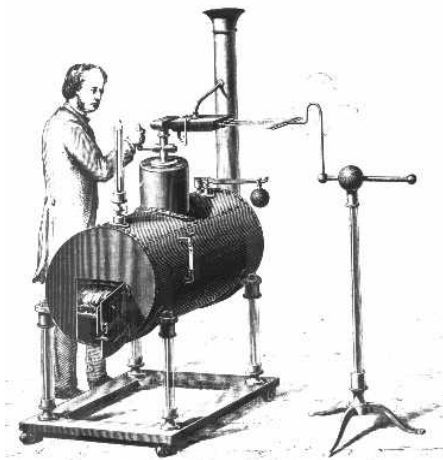
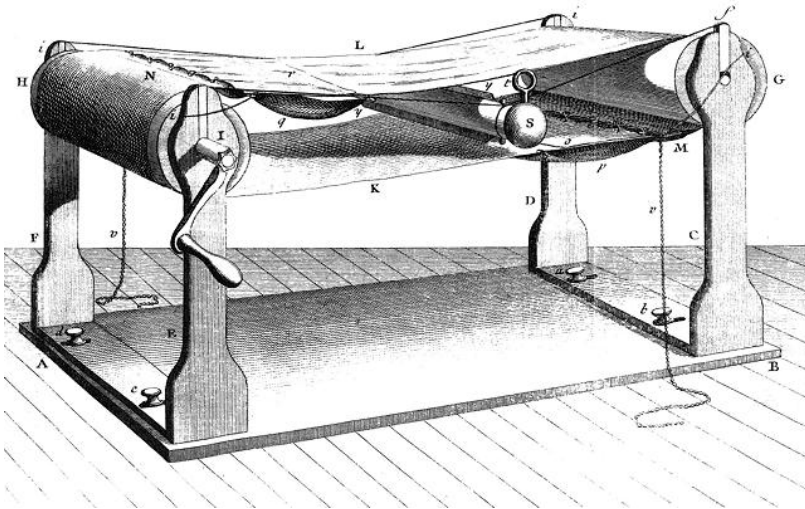
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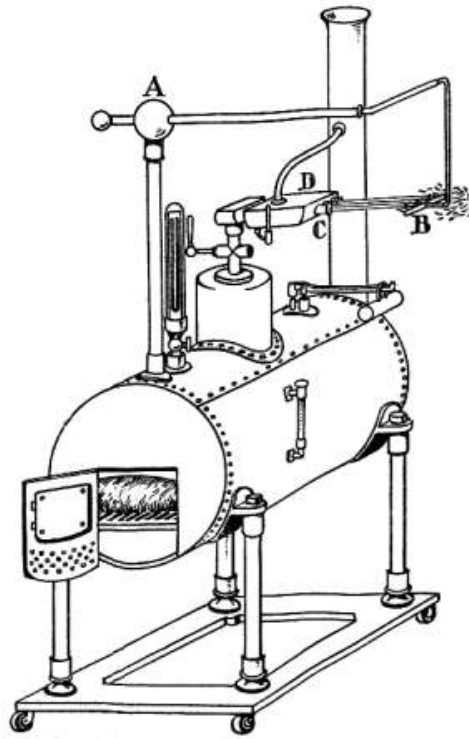
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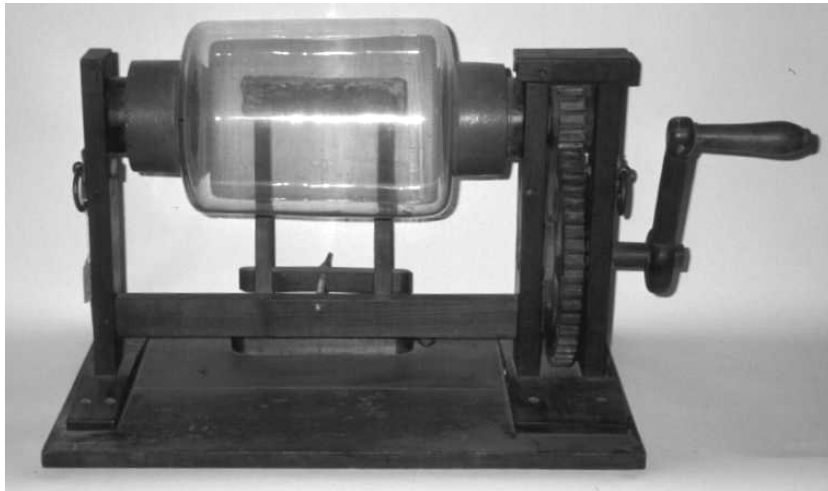
(c) The Bakken

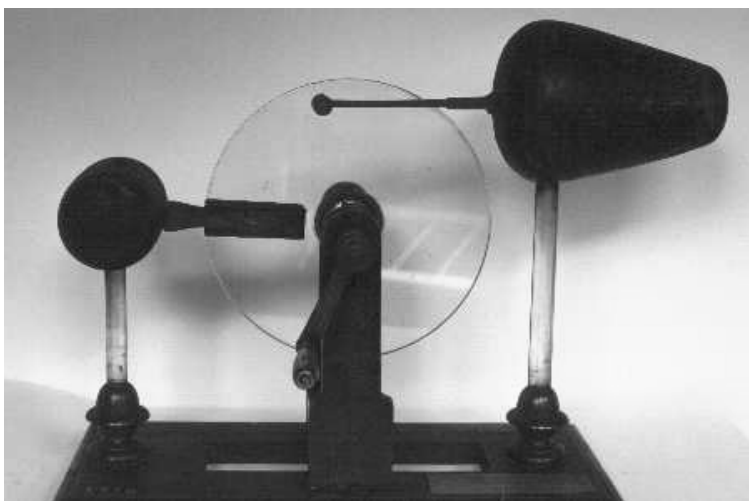






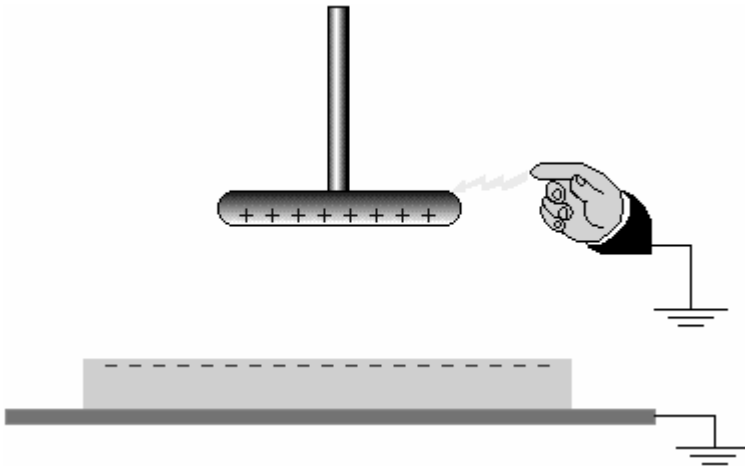
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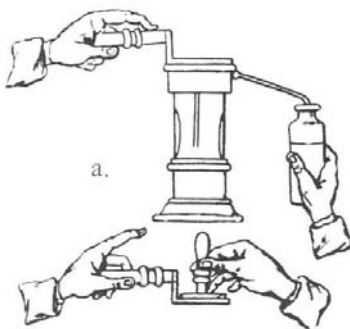
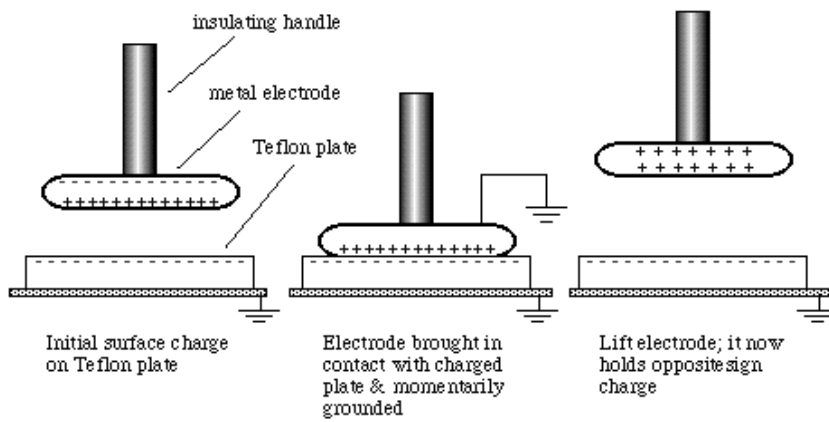




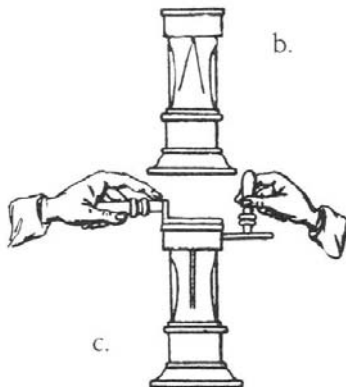
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Influence machines

.(*electrophorus* " "

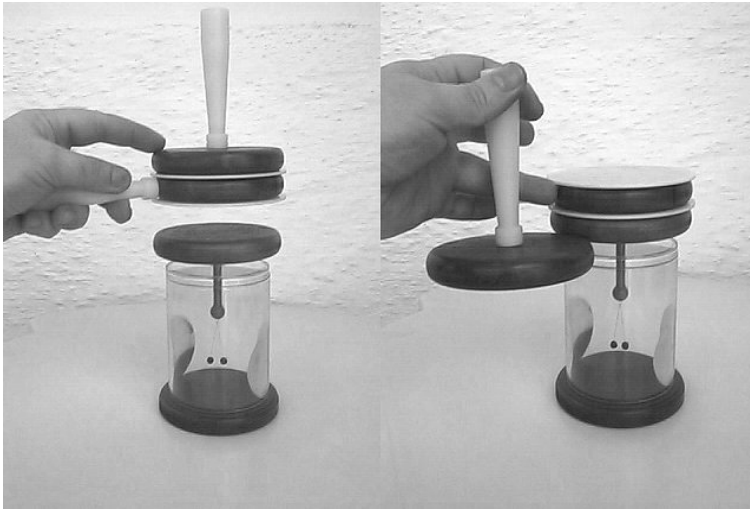




electroscope



doubler of electricity "



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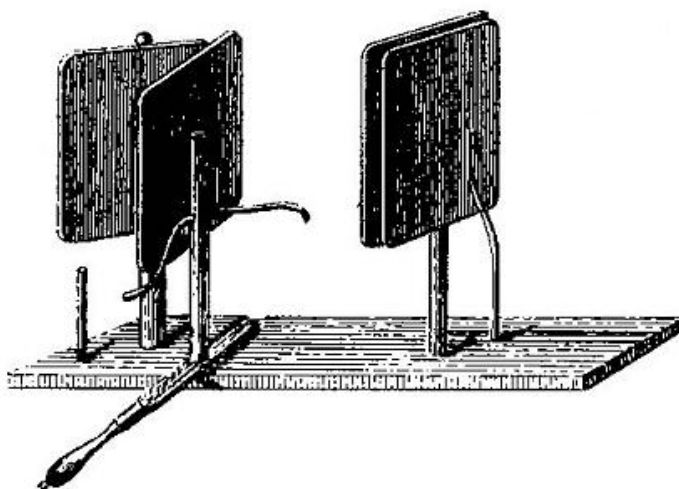
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.rotating doublers



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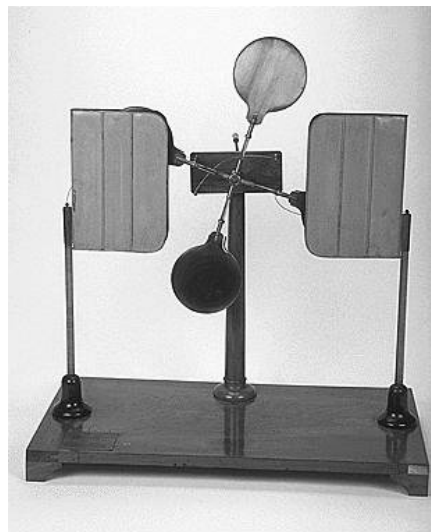
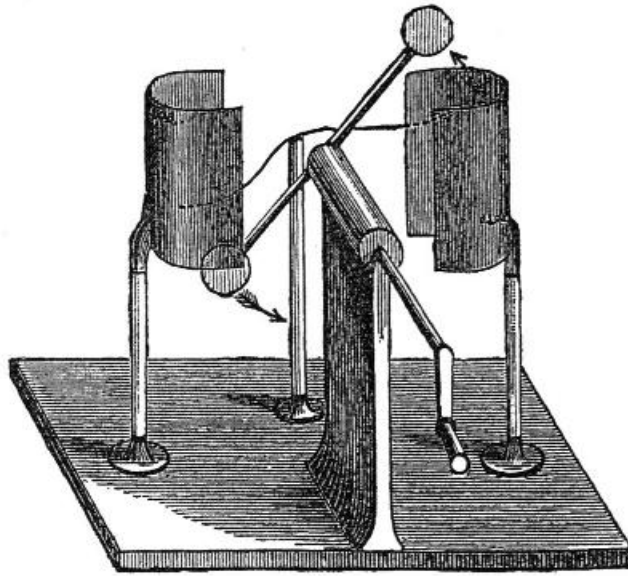
Annalen der

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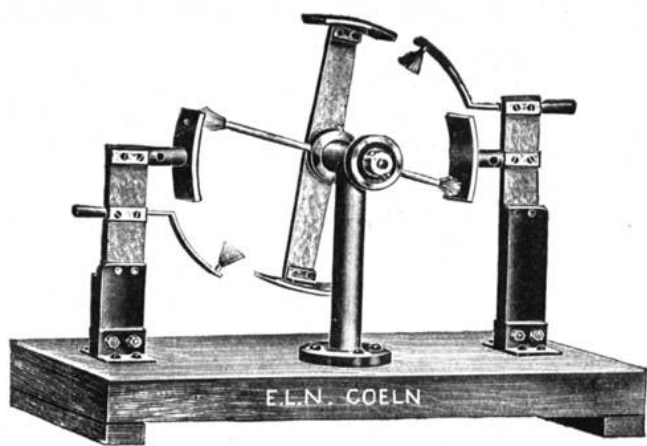
Physik

symmetrical doubler

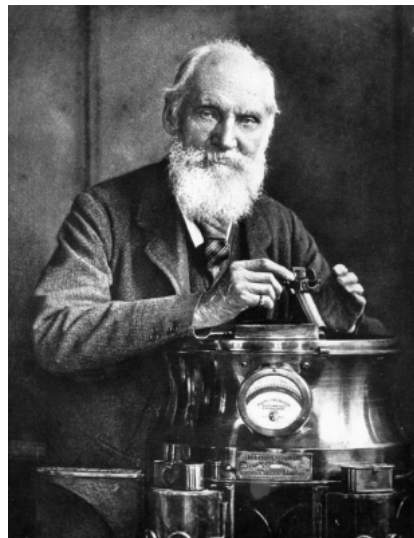


MUSEO PER LA STORIA DELL'UNIVERSITA' DI PAVIA

" " () Lord Kelvin " "
.() replenisher



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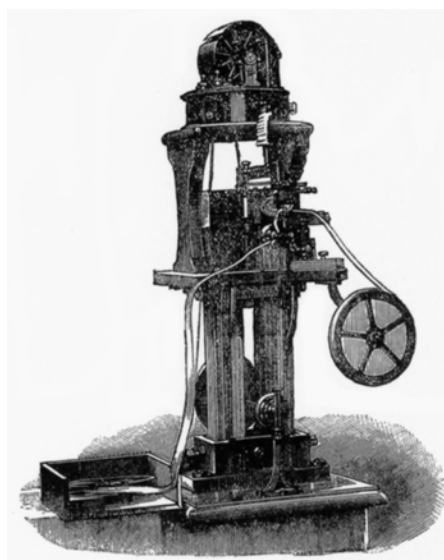
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mouse mill " "

.siphon recorder



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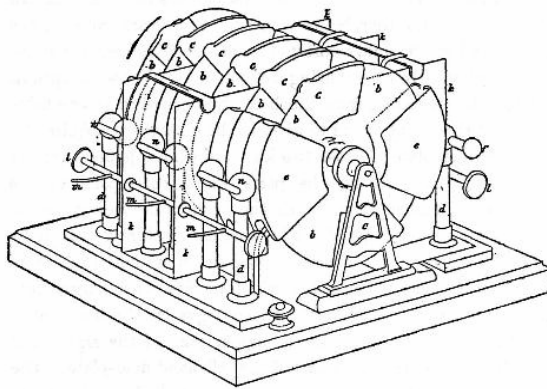


siphon recorder

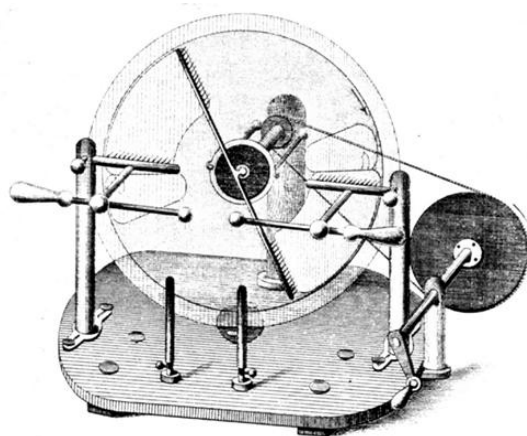
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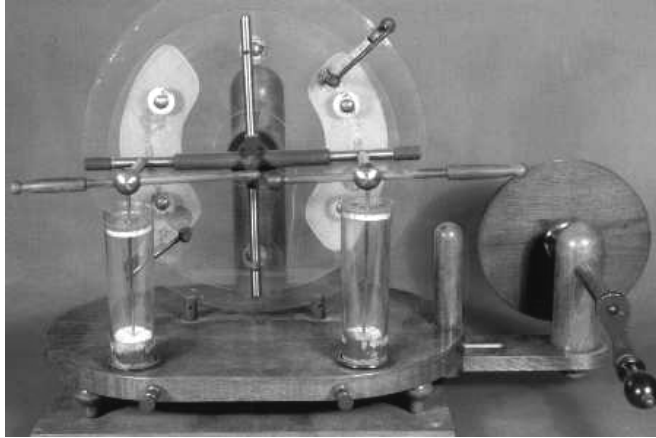
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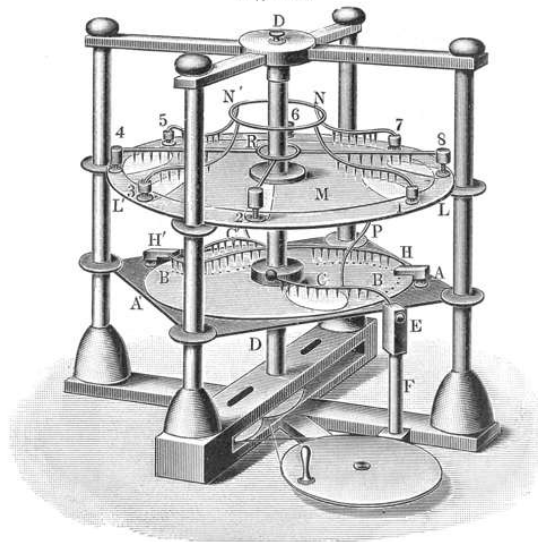


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Fig. 113.

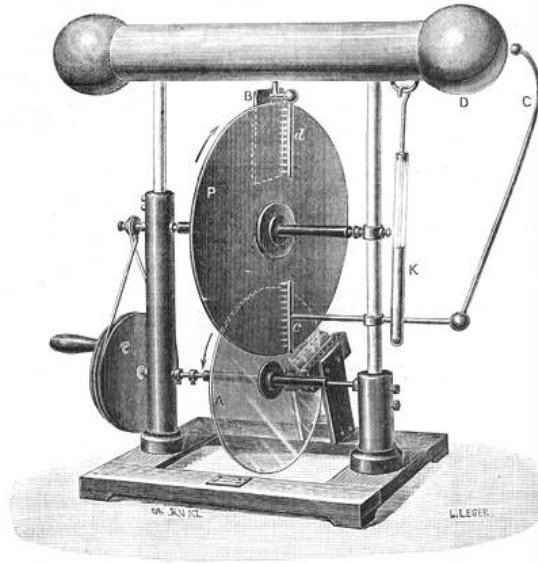


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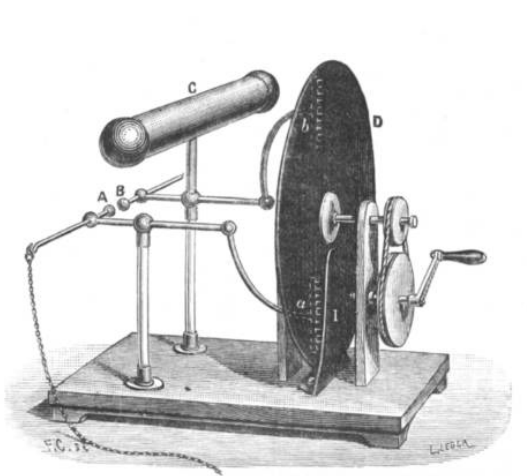
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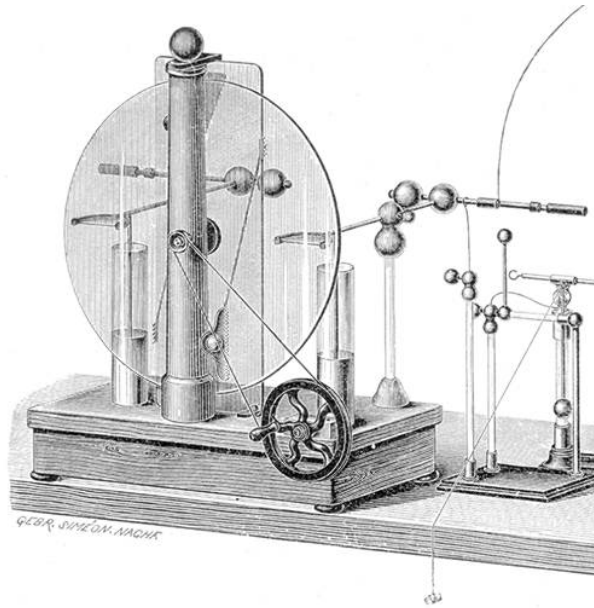


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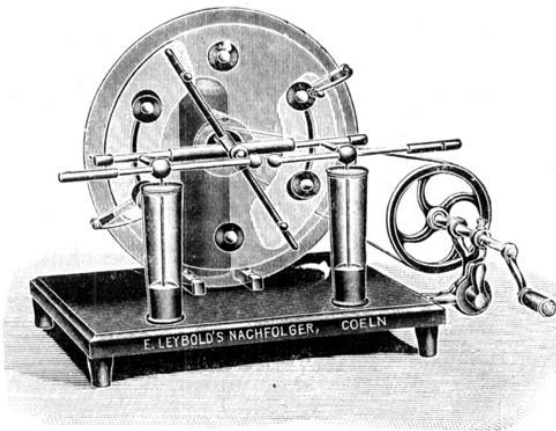
) Robert Voss "

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" "

Holtz "

" Toepler

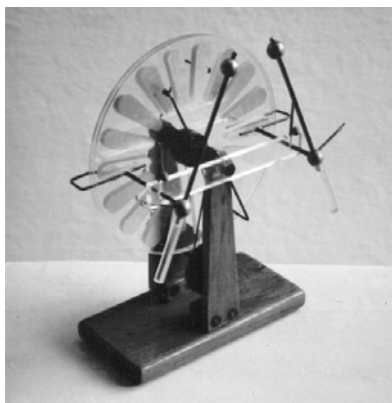


James Wimshurst "

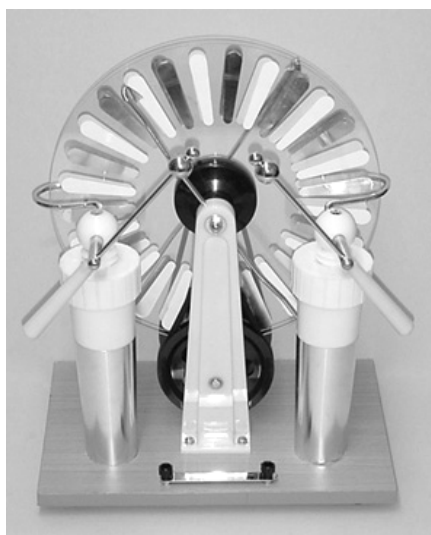
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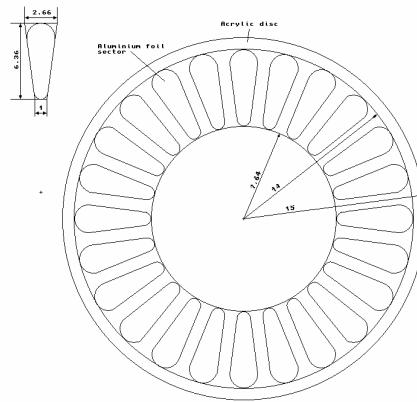
(. " " " ") .



Wimshurst

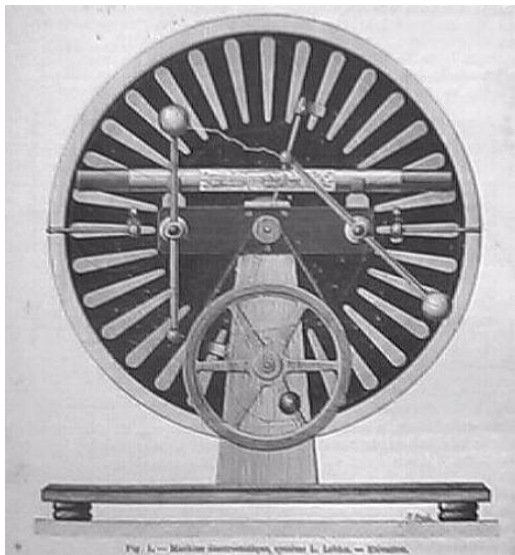


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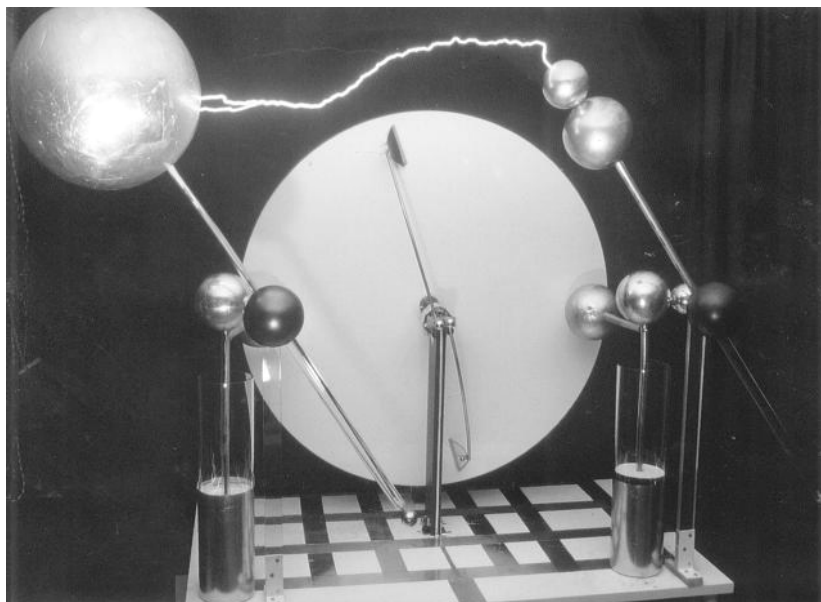
" " Weinhold "

" " M. L. Lebiez " . . "



Lebiez " "

" " Bonetti " "



Bonetti " "

Pidgeon machine " "

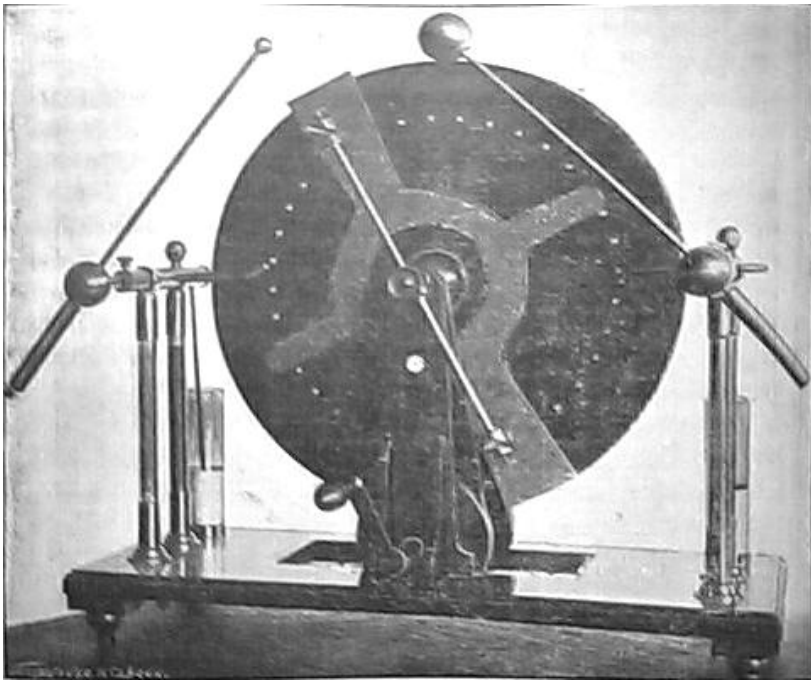
" " " " " "

) *Philosophical Magazine*

" " *.Electrical Review* " (

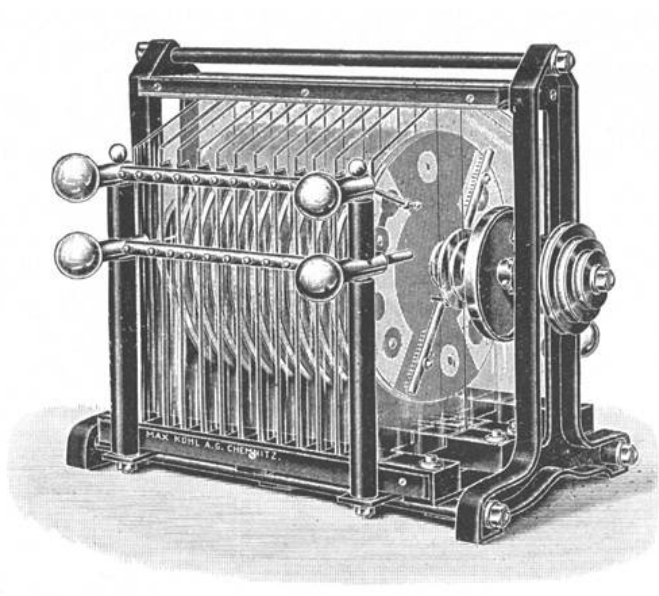
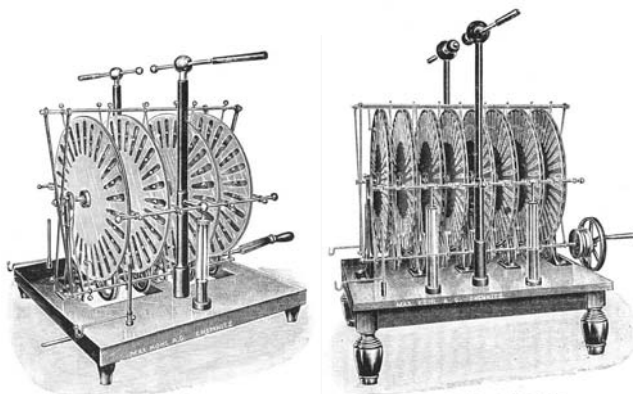
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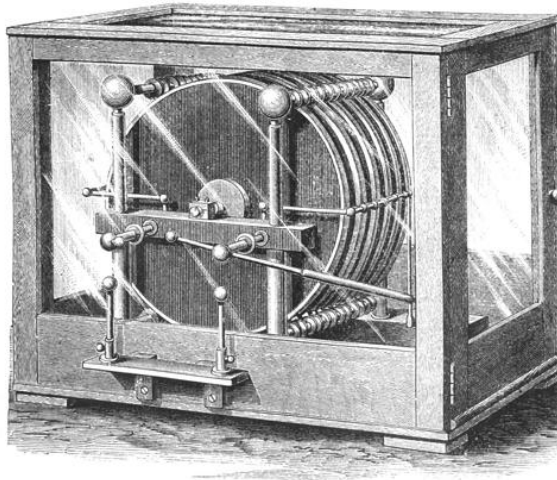


Pidgeon machine " "

double triplex machines machines

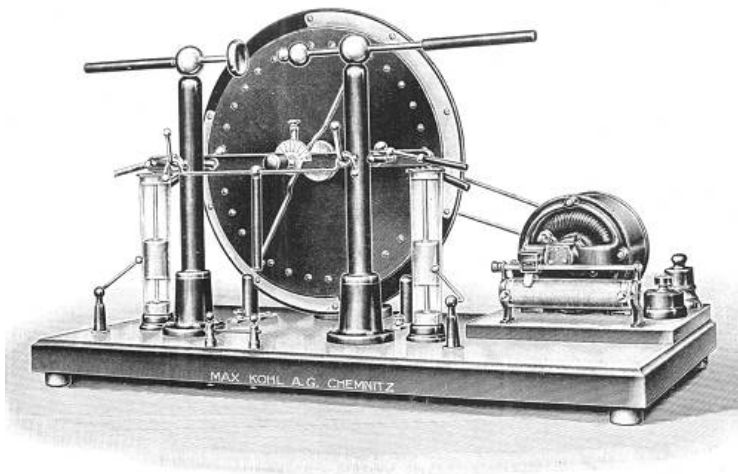


F. Tudsbury " . "

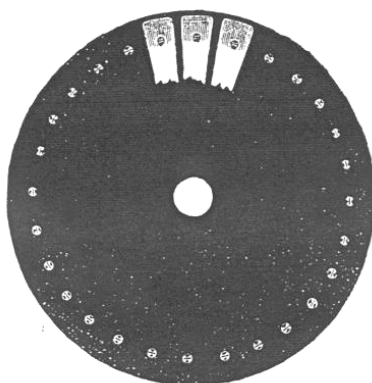


Alfred Wehrsen " "

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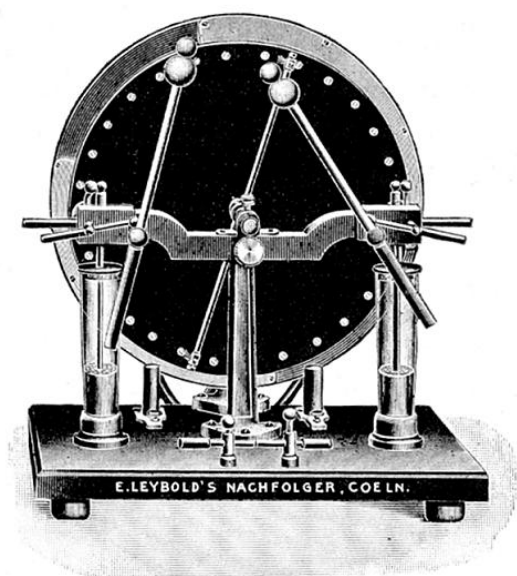
Rotierende Scheibe mit einigen freigelegten Sektoren, um eine Art von Einbettung zu zeigen.

Heinrich Wommelsdorf "

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.celluloid

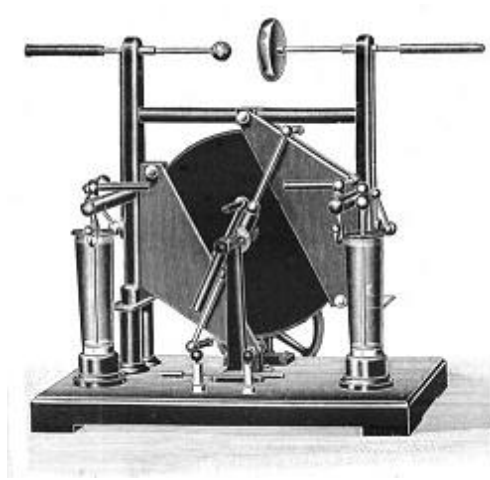


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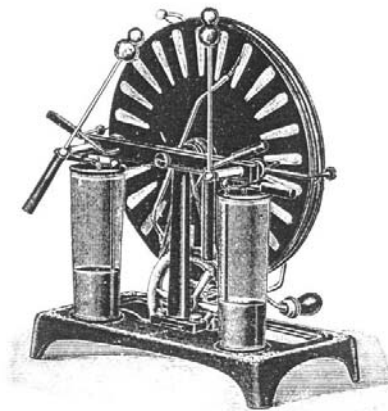
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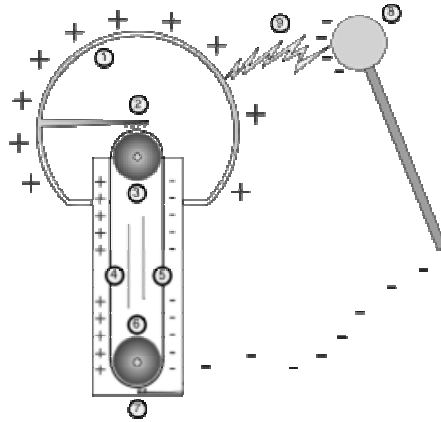
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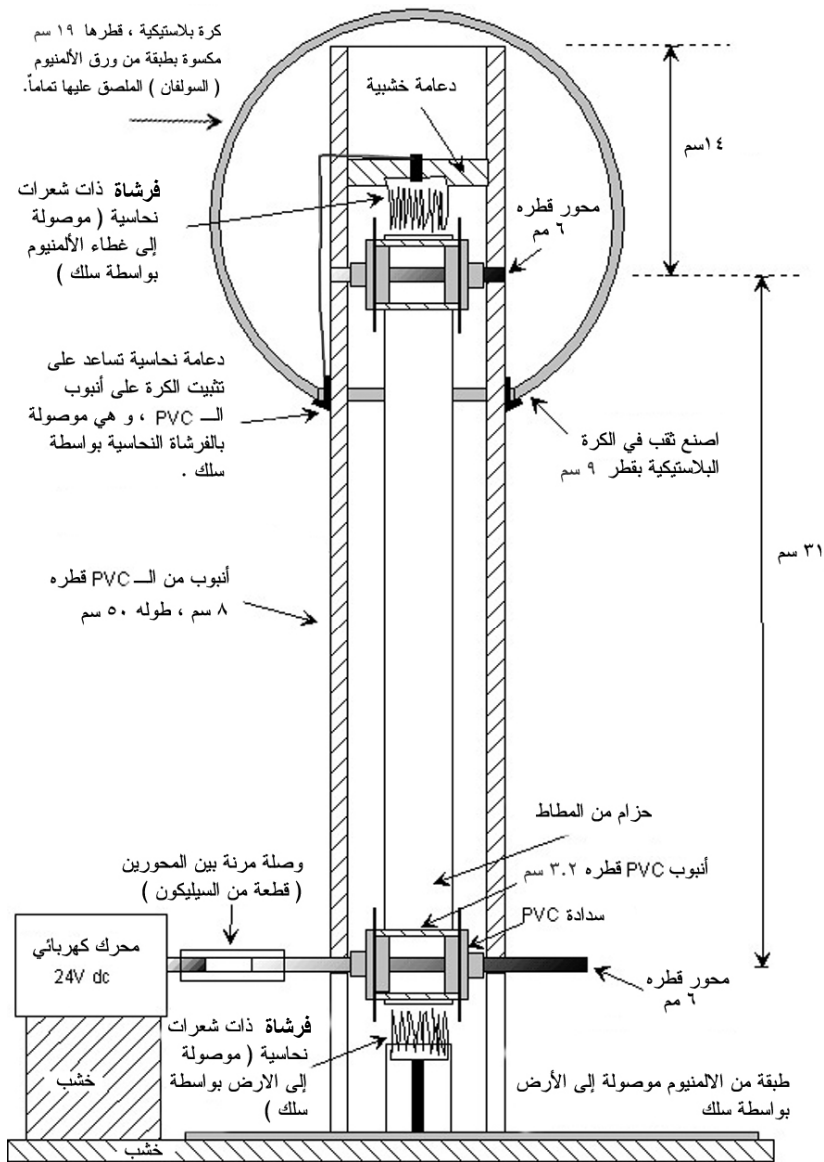


Van de Graaff generator





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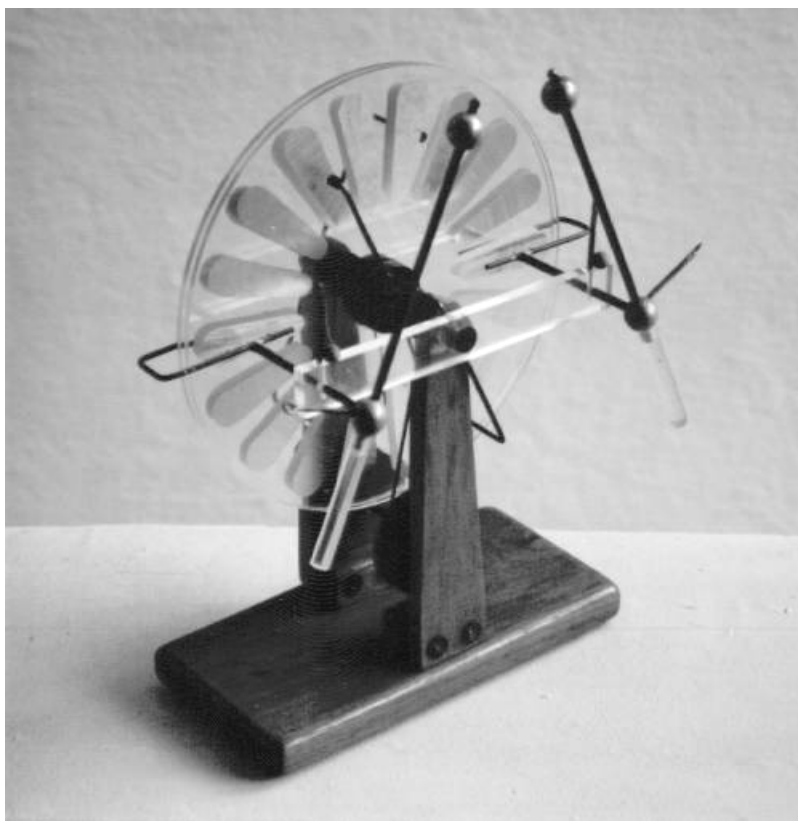


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Wimshurst Electrostatic Machine



influence "

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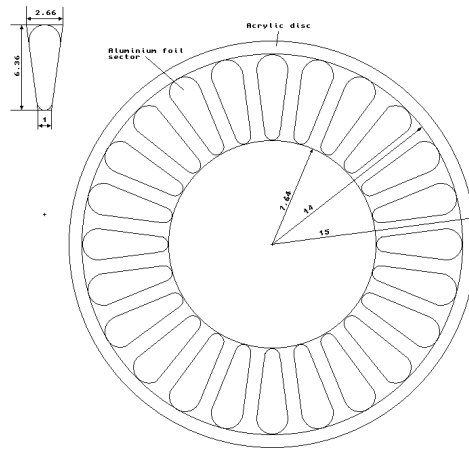
.machines

.James Wimshurst "

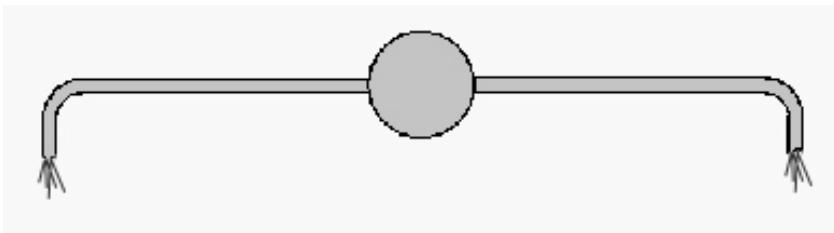
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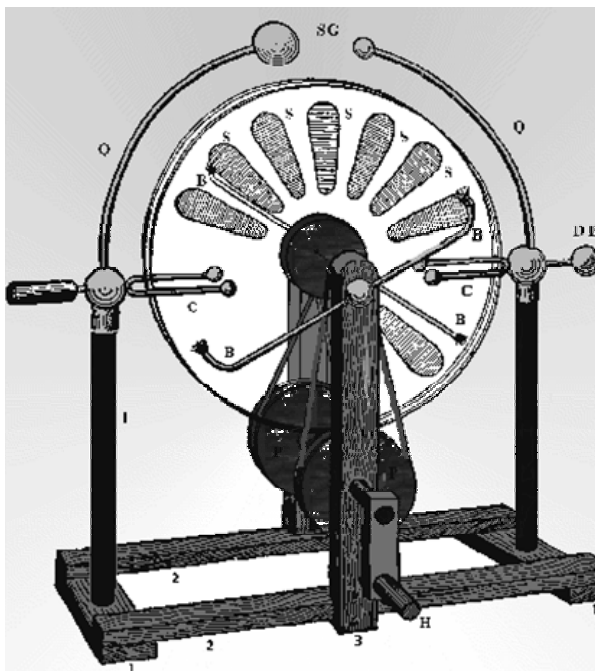
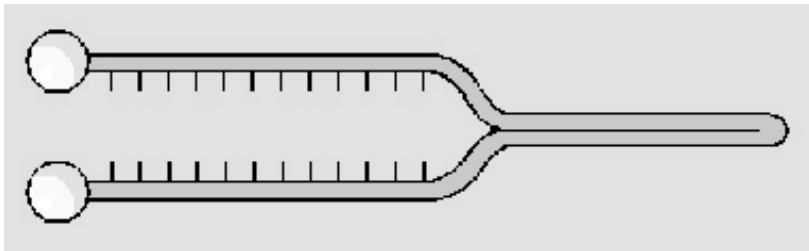


neutralizer



neutralizer

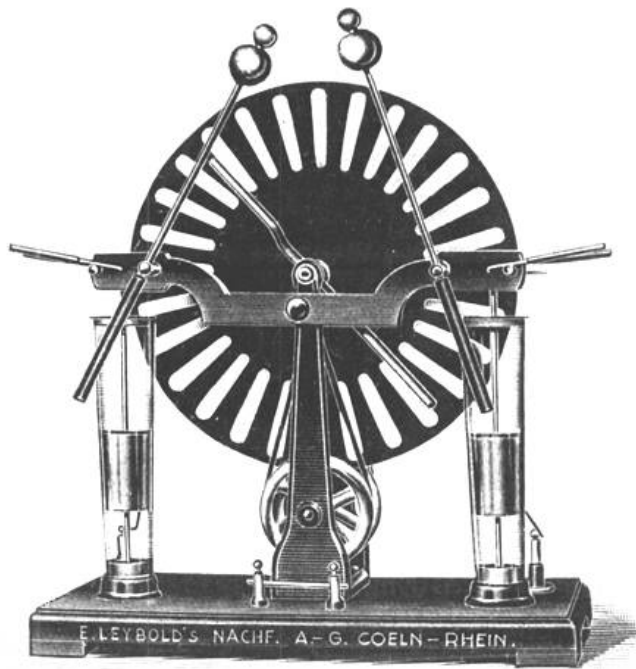
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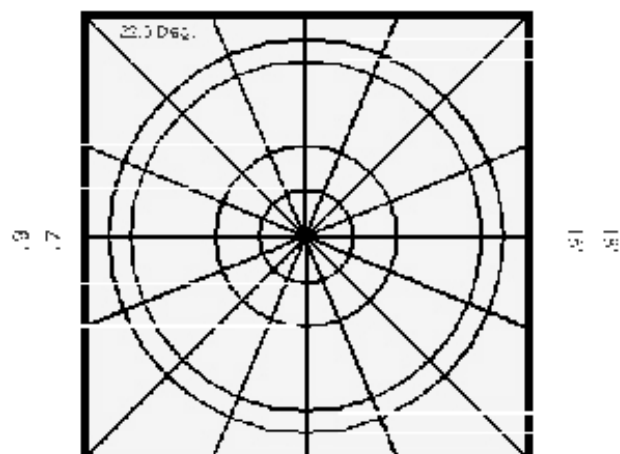
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Leyden jars

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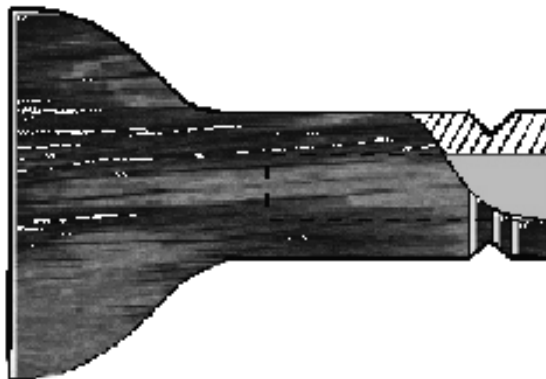
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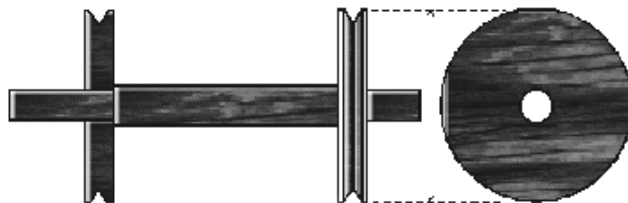
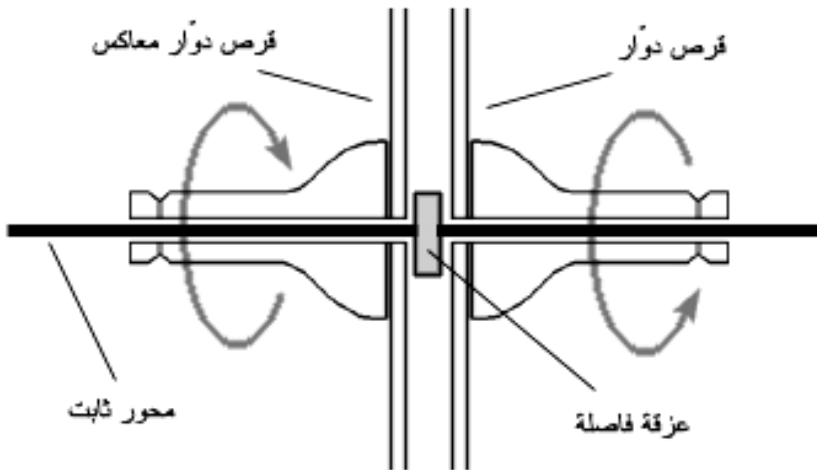
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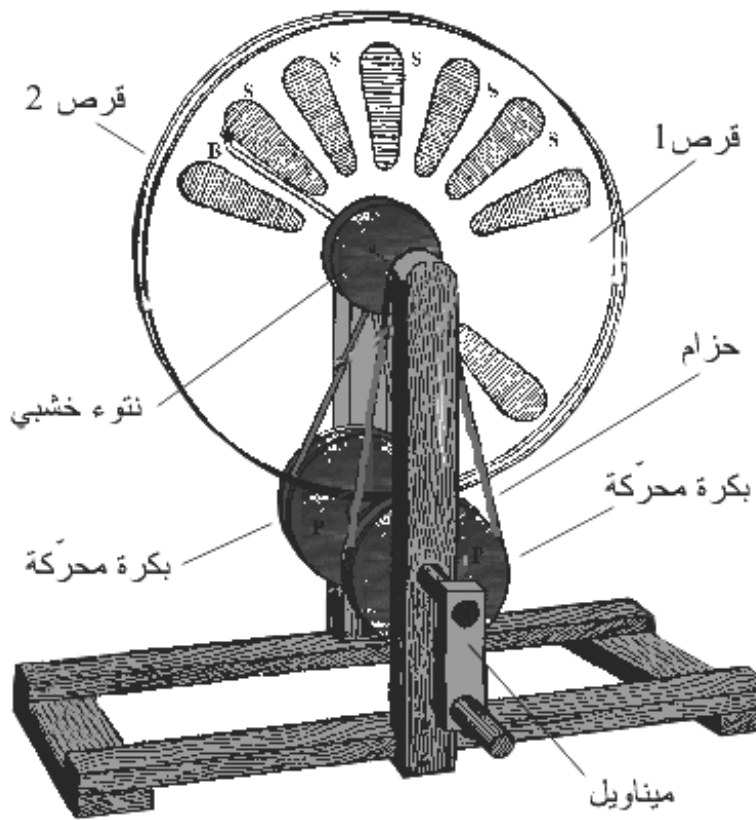
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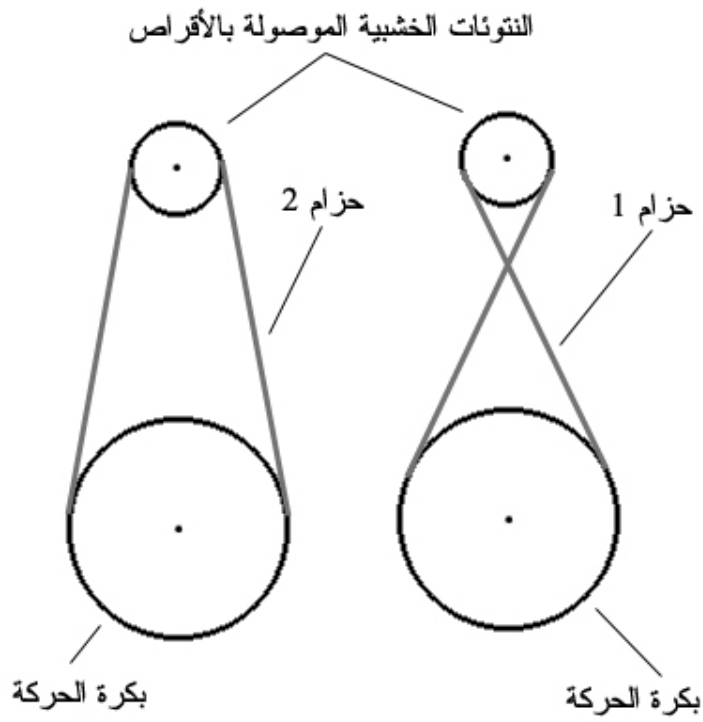
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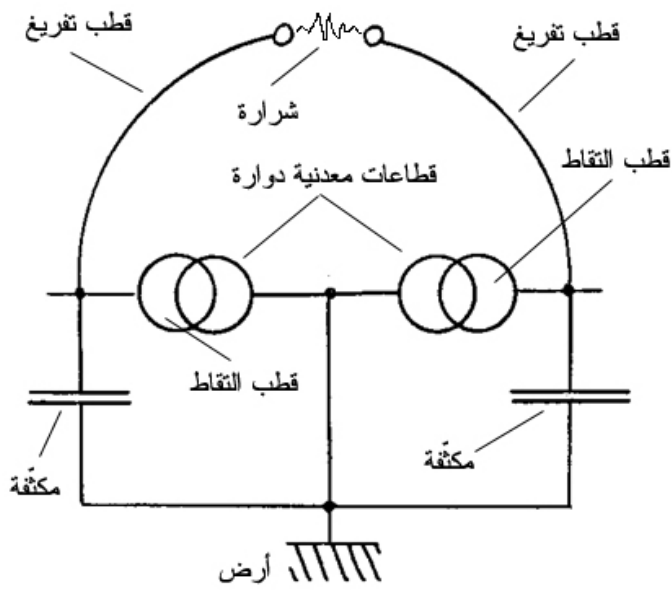
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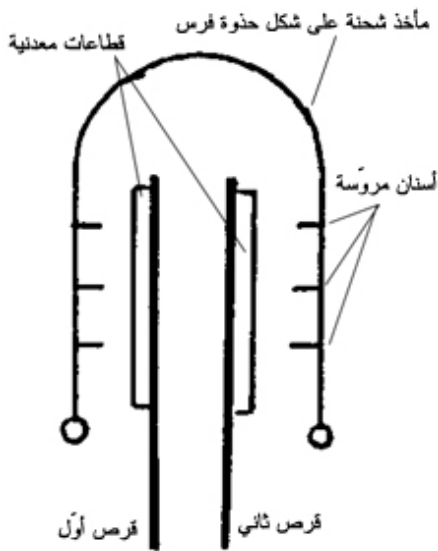
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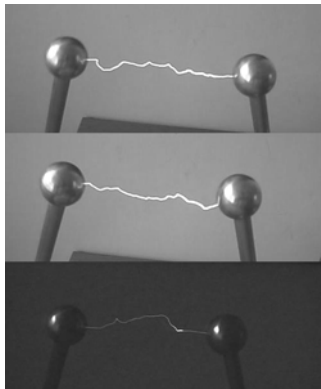
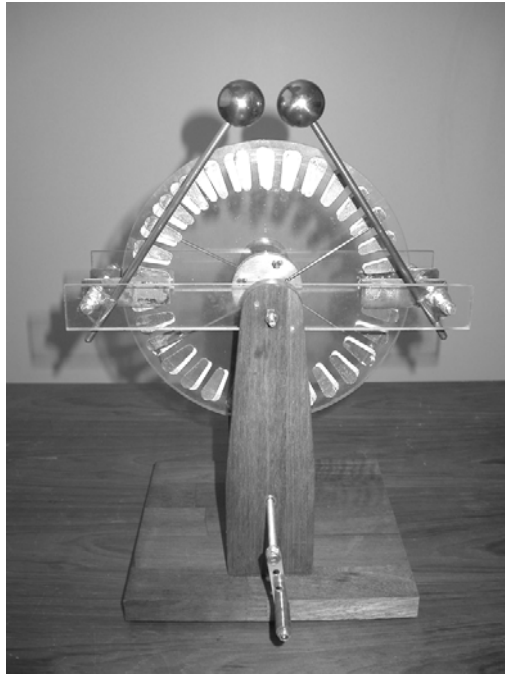


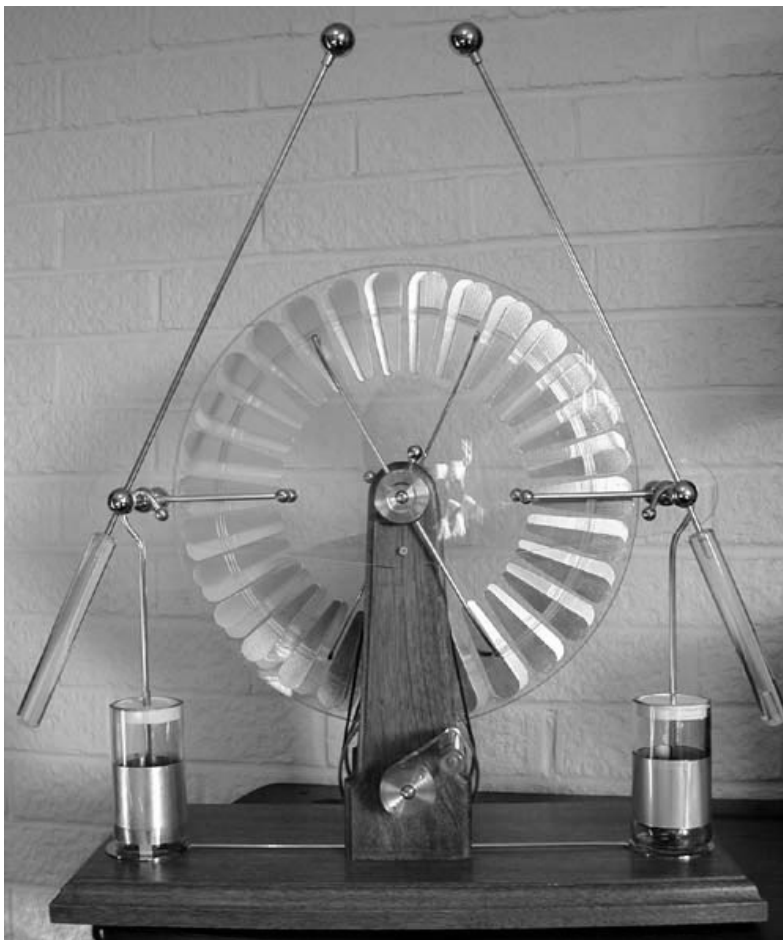


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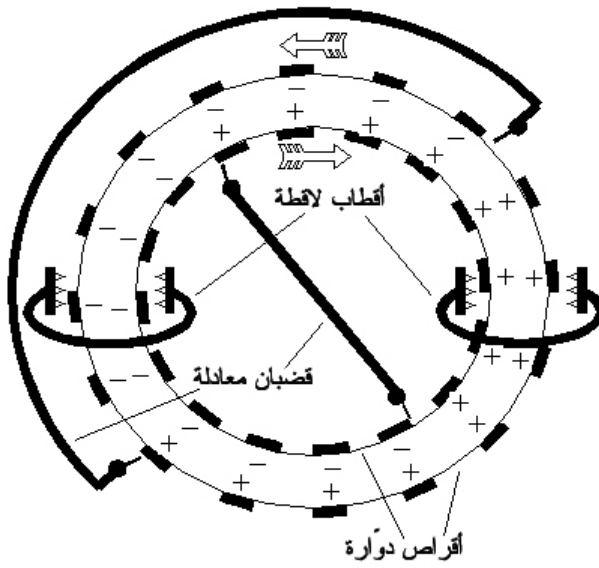
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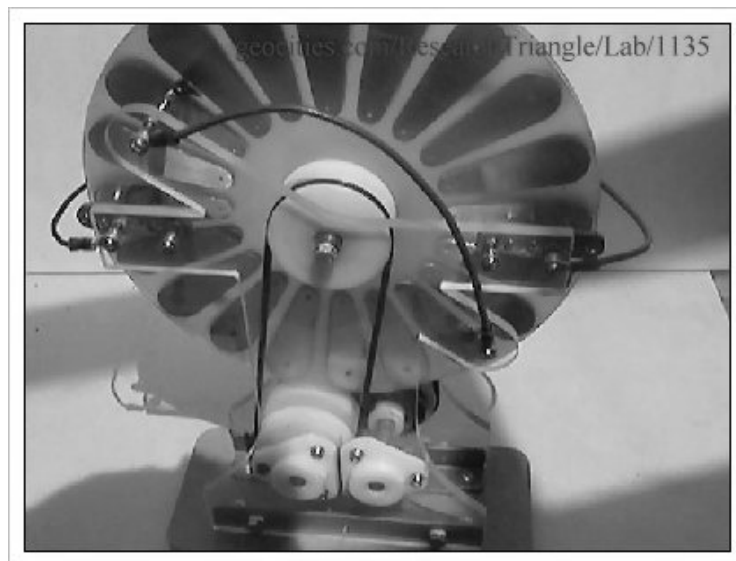
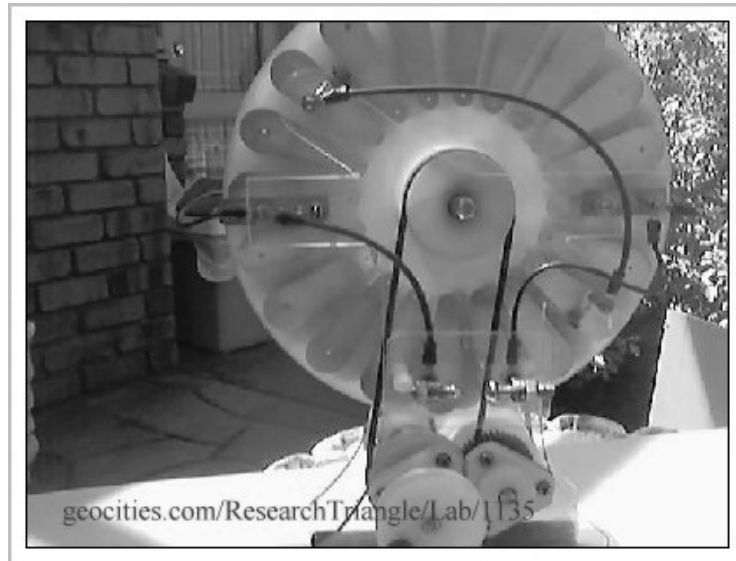
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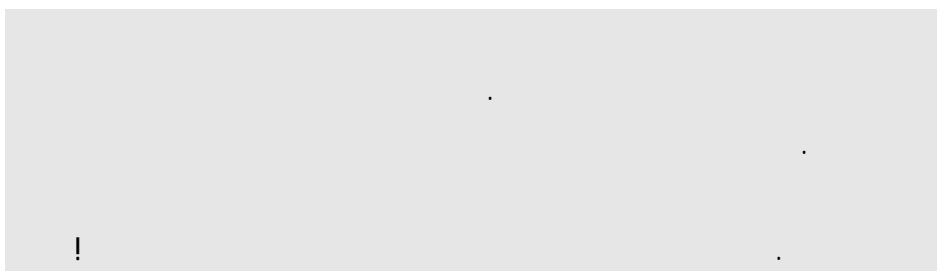
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Sven B.nisch, Schubartstrasse ٦١, D-١٣٥٠٩ Berlin, Germany

Sven B.nisch " . . "

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" " thestatica "

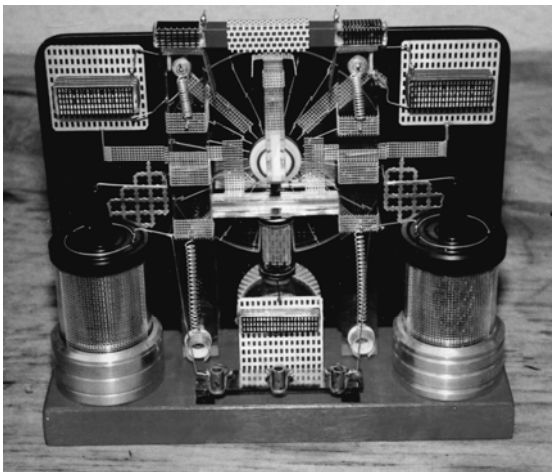
. Paul Bauman

thestatica " "

. Paul Baumann " "

Thestatica

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Sven B.nisch " . . "

" " ML :

electrostatic discharge :

power transformation free energy device

thestatika transmission line transformer ()

influence machine wimshust machine

electrostatic () influenzmaschine

overunity spark gap generator

) ml-converter ml

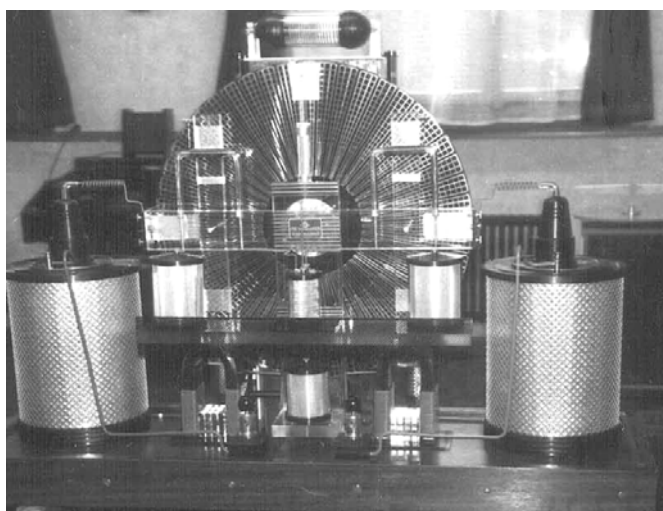
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voltage
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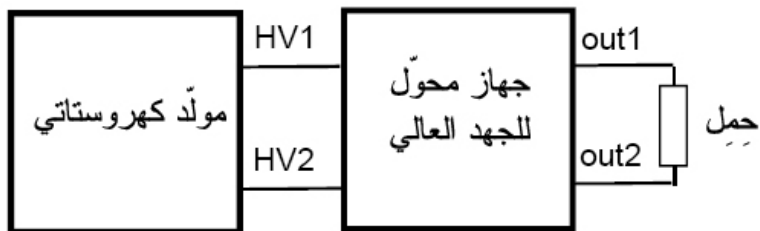


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" "

ESD

() .
() . (%)



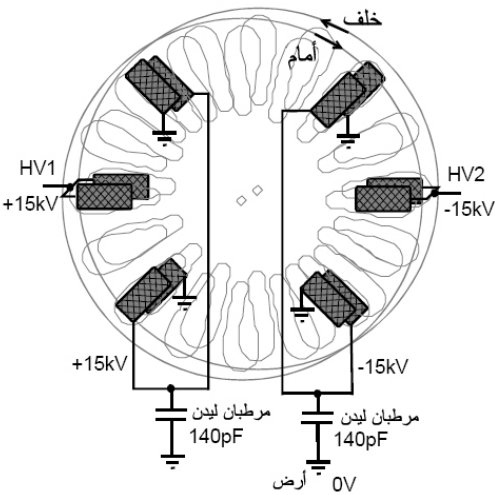
([])

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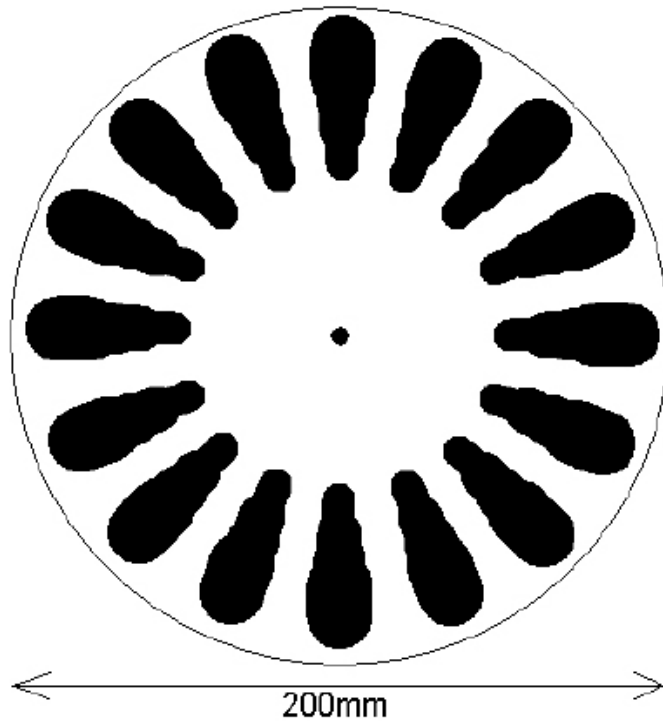
[] .

electrode

) leyden jar " " HV٢ HV١ () .(١٤٠pF
 .DC HV٢ HV١
 .HV٢ HV١ ()



() PCB
 .(٣٥μm)



(×)
)

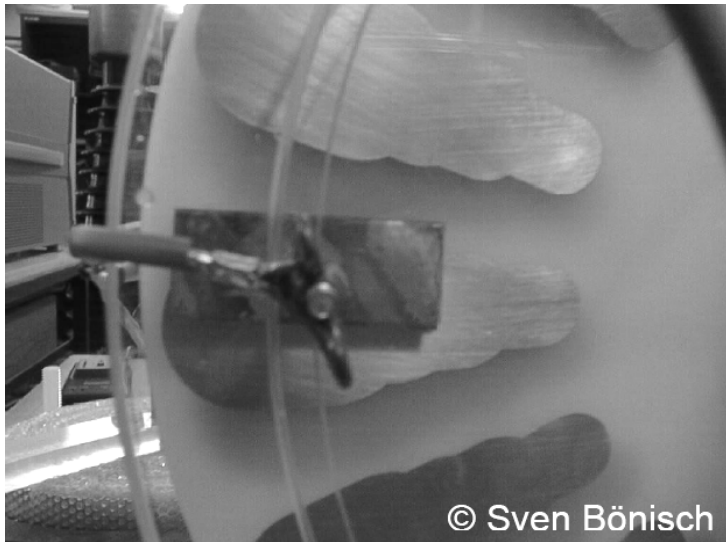
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.()



HV_2 HV_1 :



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" "

+10kV .

" "

.()

.%

electrodynamics

(ESD)

high impedance input

.ns-μs

(ESD)

.(kV-MV)

$(\lambda/\epsilon) / \lambda$

.resonator

match

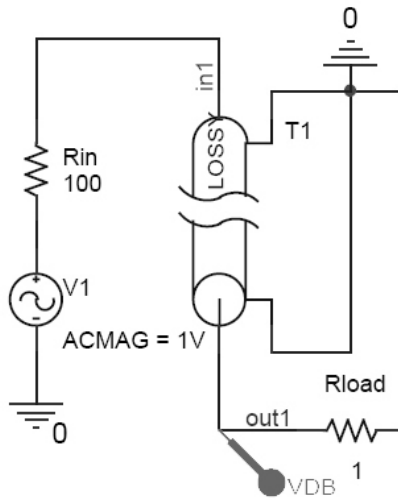
()

impedance

. λ/ϵ

()

.impedance transformation



مقاييس خط التوصيل
Transmission Line

PARAMETERS:

$Z_0 = 16$

$t_d = 3.125e-9$

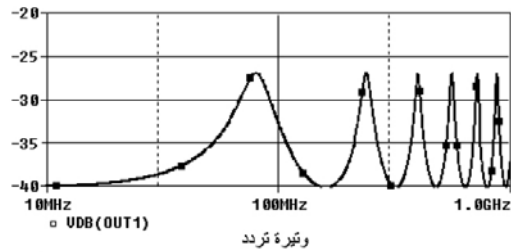
50Ω

($t_d = 3.125 \text{ ns}$)

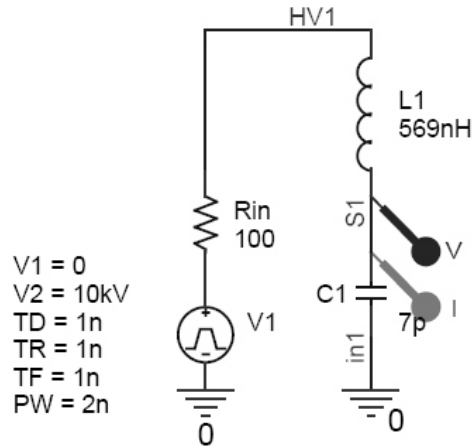
100Ω

() 1Ω

() out' () (dB) decibels



ESD



:

(C/L)

$()$

$(\approx 8.0MHz)$

(V)

$3.0A$

$1.0kV$

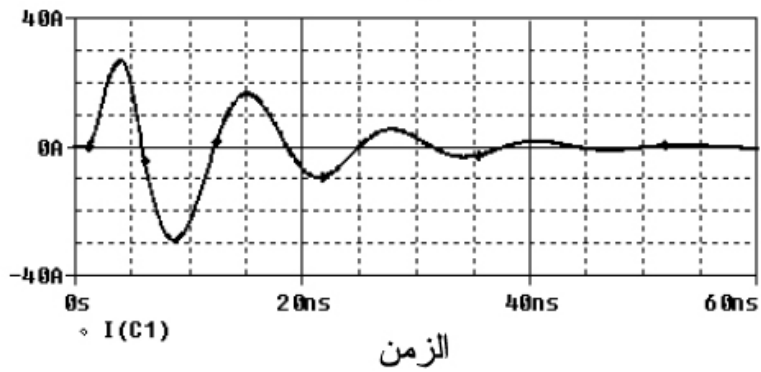
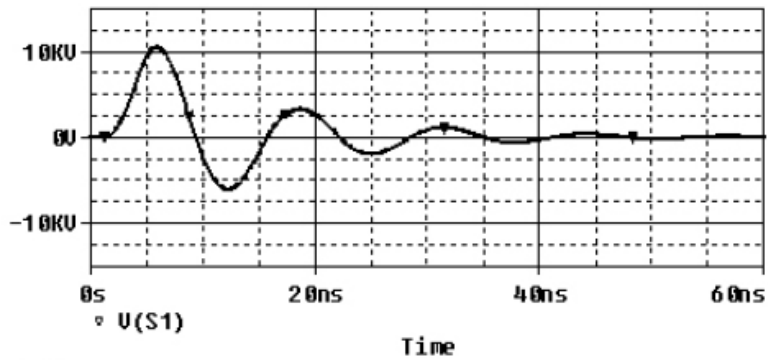
$($

spark "

"

[] []

transmitter

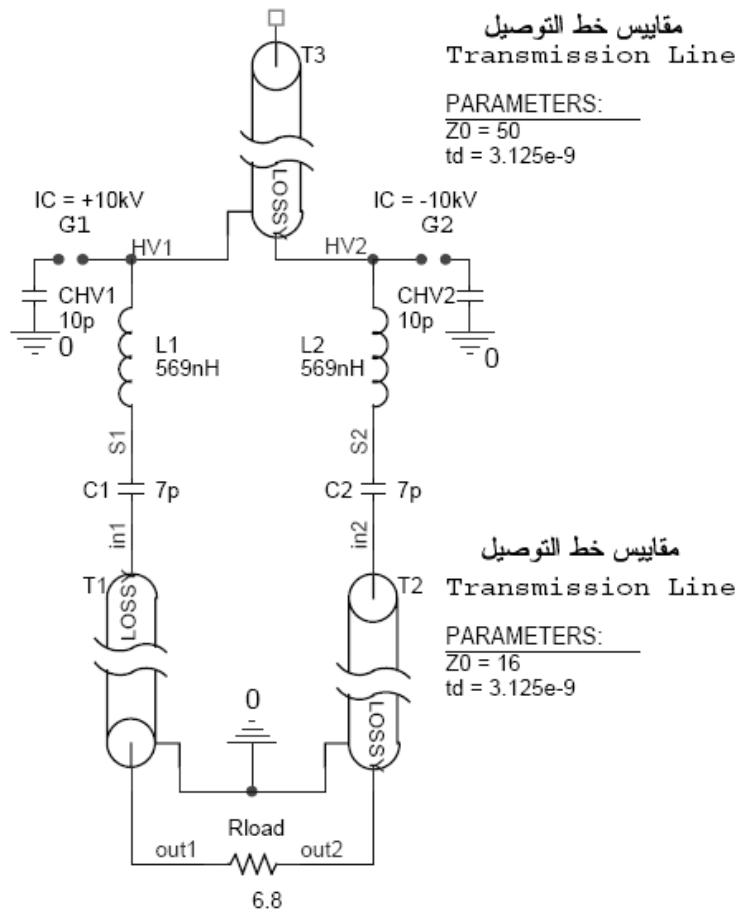


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[] " "

.()



switching elements

T_1 T_2

G_1 G_2

RF

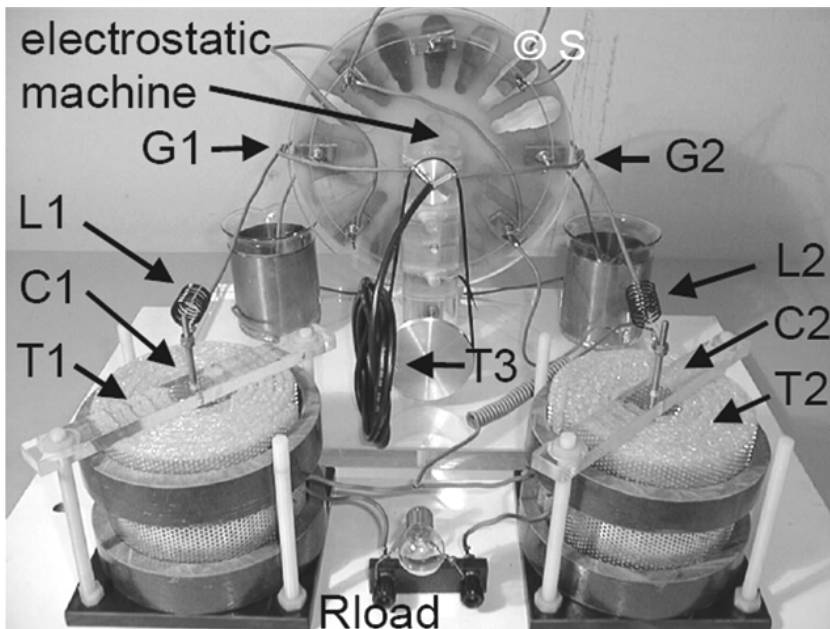
T_3

T_1 T_2 T_3

C_1/L_1 C_2/L_2

$(\approx 80 \text{ MHz})$

(PSPICE)



١٠-

20 kV CHV^2 و CHV^1 G^2 G^1 HV^2 و HV^1
 $> 50\text{ kV}$ (T^3) $(RG-58)$

$L^2 \quad L^1$

.

$L^2 \quad HV^2$

$L^1 \quad HV^1$

.air coils

$:L^2 \quad L^1$

, :

:

:

S^1, S^2

. C^1, C^2

.(

) T^1, T^2

. C^1, C^2

:()

:()

:()

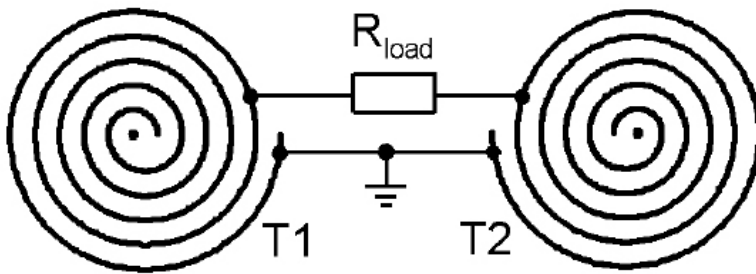
T^1, T^2

.()

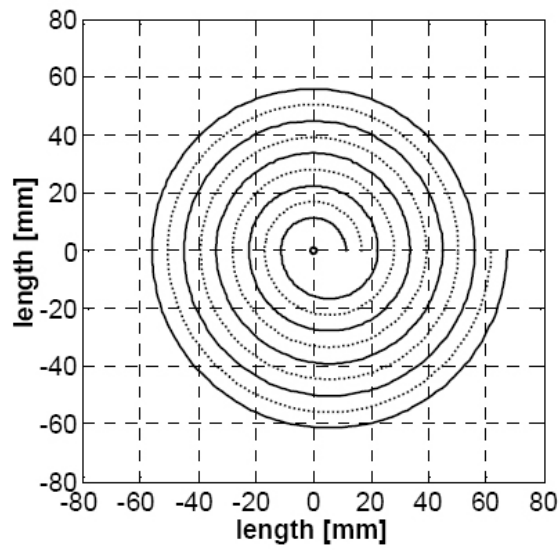
. $12V / 21W$

.load

.PVC



(S^1, S^2)



()

. 80MHz

parallel plate transmission line

. Ω

10kV

()

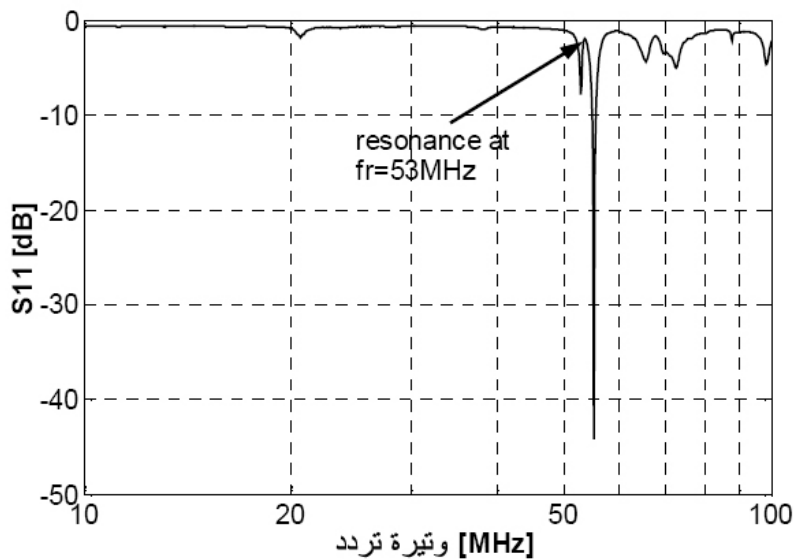
.partial discharges

.RF

(HV¹, HV²)

Ω

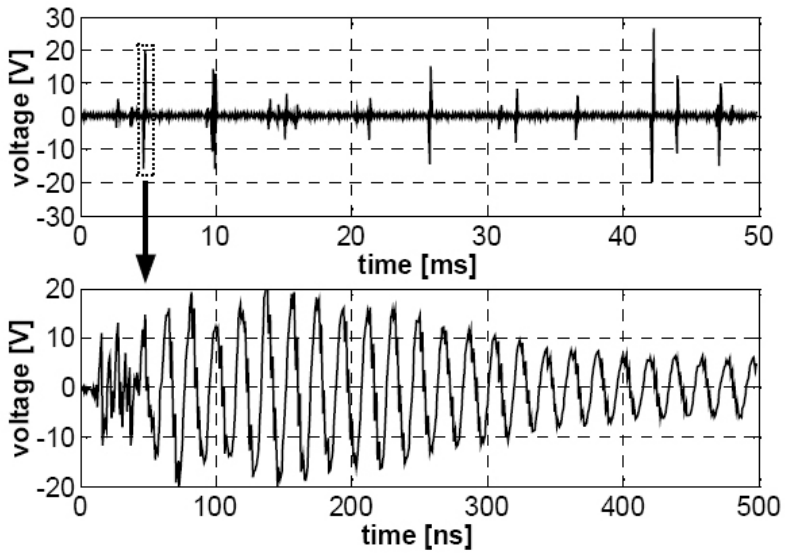




:

.()

$(C^2/L^2 \quad C^1/L^1)$
 $(\approx 53 \text{ MHz})$
 $(S_{11} = 0) \quad T^1, T^2$
 $(S_{11} \rightarrow \infty) \quad T^3$
 $53 \text{ MHz} \quad 80 \text{ MHz}$
 $L^2/C^2 \text{ و } L^1/C^1$
 T^2



)

.($3 \cdot \text{kV}$

. $100-400 \text{ Hz}$

. $1 \cdot \text{mW}$

. $8 \cdot \text{mW}$



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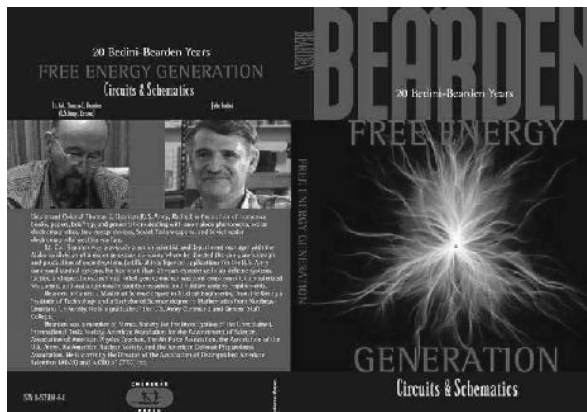
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